

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

2115/14

OPERATOR: License # 34099
Name: Richland Oil Investments, LLC
Address 1: P.O. Box 166
Address 2: _____
City: Palco State: KS Zip: 67657 + _____
Contact Person: Keith Lambert
Phone: (785) 737-5441
CONTRACTOR: License # 34233
Name: Maverick Drilling LLC
Wellsite Geologist: Richard Bell
Purchaser: Coffeyville Resources

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 #: _____

12-28-11	1-3-12	1-26-12
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23795-00-00
Spot Description: _____
SE NE SW NW Sec. 29 Twp. 9 S. R. 21 East West
1,910 Feet from North / South Line of Section
1,200 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Grecian Trust Well #: 1-29
Field Name: Harrold North
Producing Formation: Arbuckle
Elevation: Ground: 2331 Kelly Bushing: 2339
Total Depth: 3889 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1840 Feet
If Alternate II completion, cement circulated from: 1840
feet depth to: Surface w/ 300 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 56,000 ppm Fluid volume: 850 bbls
Dewatering method used: Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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FEB 15 2014

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FEB 21 2012
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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: Keith E. Lambert
Title: Managing Member Date: 2-15-12

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 2/15/12 - 2/15/14
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 2-24-12

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Operator Name: Richland Oil Investments, LLC Lease Name: Grecian Trust Well #: 1-29
 Sec. 29 Twp. 9 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1822 +517
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3314 -975
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3520 -1181
List All E. Logs Run: Dual Compensated Porosity Dual Induction Microresistivity Sector Cement Bond		Toronto	3542 -1203
		Lansing	3558 -1219
		BKC	3771 -1432
		Arbuckle	3881 -1542

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	12.25	8 5/8	23	222	Class A	165	3%CC2%Gel
Production	7.875	5 1/2	14	3883	Standard	180	EA-2

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1840	60/40 POZMIX	300	4%GEL 1/4# FLO-SEAL

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

TUBING RECORD: Size: <u>2 7/8</u> Set At: <u>3880</u> Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>2-8-12</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>8</u> Gas Mcf _____ Water Bbls. <u>272</u> Gas-Oil Ratio _____ Gravity <u>21</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3883 - 3889</u>
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CHARGE TO: RICHLAND OIL INVESTMENTS
 ADDRESS: P.O. Box 166
 CITY, STATE, ZIP CODE: PALCO KANSAS 67556

TICKET No 21164

PAGE 1 OF 2

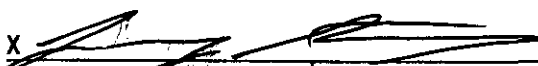
1. SERVICE LOCATIONS <u>HAUS</u>	WELL/PROJECT NO. <u>1-29</u>	LEASE <u>GRECIAN TRUST</u>	COUNTY/PARISH <u>GRAHAM</u>	STATE <u>KS</u>	CITY	DATE <u>01-03-12</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>MAVRICH DRG # 108</u>	SHIPPED VIA <u>GT</u>	DELIVERED TO <u>S. BOGUE</u>	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>LONGSTRING</u>	WELL PERMIT NO. <u>15-065-23795</u>	WELL LOCATION <u>S29 T9 R21</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #112	SD	MI			6.00	300.00
578		1			Pump SERVICE	1	EA			1500.00	1500.00
221		1			LIQUID HCL	2	GAZ			25.00	50.00
281		1			MUD FLUSH	500	GAZ			1.25	625.00
290		1			D-AIR	2	GAZ			35.00	70.00
402		1			CENTRALIZER	6	EA	5 1/2 in		70.00	420.00
403		1			BASINET	2	EA			250.00	500.00
404		1			PORT COLLAR	1	EA			2400.00	2400.00
405		1			FORMATION PACKER SHADE	1	EA			1400.00	1400.00
406		1			LATCH DOWN PLUG & BATTLE	1	EA			250.00	250.00

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 FEB 15 2014
 KCC

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS


X 
 DATE SIGNED 01-03-12 TIME SIGNED 0000 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	7515.00
WE UNDERSTOOD AND MET YOUR NEEDS?				PAGE 2	4219.25
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub TOTAL	11734.25
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Graham TAX 7.55%	687.43
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	12,421.68

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR  APPROVAL

Thank You!

38743
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FEB 21 2012
KCC WICHITA

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—TERMS: Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—PRICES AND TAXES: All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES:

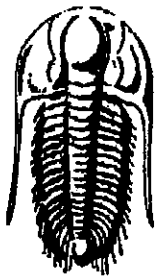
1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Richland Oil Investments, LLC**

PO Box 166
Palco, KS 67657

ATTN: Rich Bell

Grecian Trust #1-29

29-9s-21w Graham, KS

Start Date: 2011.12.31 @ 20:59:54

End Date: 2012.01.01 @ 03:03:54

Job Ticket #: 44750 DST #: 1

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FEB 21 2012

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Printed: 2012.02.15 @ 12:33

FEB 15 2014

KCC

Richland Oil Investments, LLC

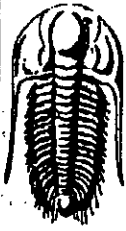
29-9s-21w Graham, KS

Grecian Trust #1-29

DST # 1

Tor - LKC "A"

2011.12.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Richland Oil Investments, LLC

PO Box 166
Palco, KS 67657

ATTN: Rich Bell

29-9s-21w Graham, KS

Grecian Trust #1-29

Job Ticket: 44750

DST#: 1

Test Start: 2011.12.31 @ 20:59:54

GENERAL INFORMATION:

Formation: **Tor - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:54

Time Test Ended: 03:03:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: **3515.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Total Depth: 3570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2339.00 ft (KB)

2332.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8734

Outside

Press@RunDepth: 381.24 psig @ 3520.00 ft (KB)

Start Date: 2011.12.31

End Date:

2012.01.01

Capacity: 8000.00 psig

Last Calib.: 2012.01.01

Start Time: 20:59:55

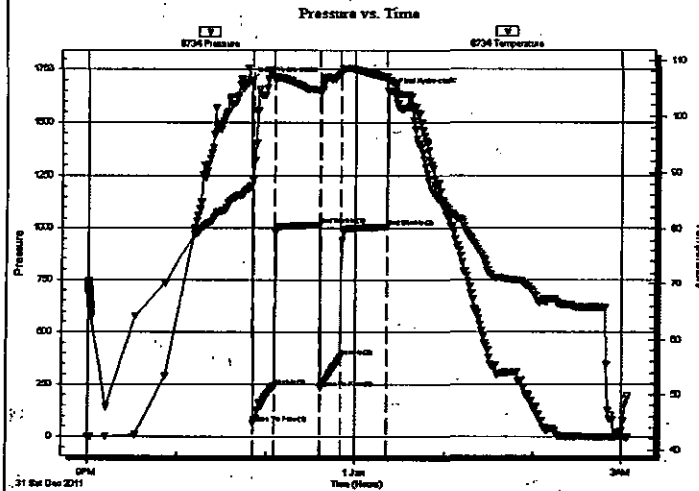
End Time:

03:03:54

Time On Btmr 2011.12.31 @ 22:49:24

Time Off Btmr 2012.01.01 @ 00:23:54

TEST COMMENT: IFP - BOB 2 1/2 min
ISI - no blow back
FFP - BOB 2 1/2 min
FSI - no blow back



PRESSURE SUMMARY

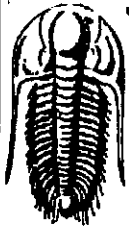
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.09	87.71	Initial Hydro-static
2	62.35	88.78	Open To Flow (1)
16	242.28	106.78	Shut-In(1)
46	1014.49	104.77	End Shut-In(1)
47	232.89	104.39	Open To Flow (2)
61	381.24	107.63	Shut-In(2)
92	1006.14	107.05	End Shut-In(2)
95	1646.51	106.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	VSOOW 3%O, 97%W	1.75
125.00	VSGOCW 20%G, 5%O, 75%W	1.75
310.00	VSGOCM 12%G, 3%O, 85%M	4.35
95.00	GM 10%G, 90%M	1.33
110.00	DRL MUD 100%	1.54

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 44750

DST#: 1

ATTN: Rich Bell

Test Start: 2011.12.31 @ 20:59:54

Tool Information

Drill Pipe:	Length: 3521.00 ft	Diameter: 3.80 inches	Volume: 49.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.39 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3515.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			3500.00		
Hydraulic tool	5.00			3505.00		
Packer	5.00			3510.00	20.00	Bottom Of Top Packer
Packer	5.00			3515.00		
Stubb	1.00			3516.00		
Perforations	3.00			3519.00		
Change Over Sub	1.00			3520.00		
Recorder	0.00	6669	Inside	3520.00		
Recorder	0.00	8734	Outside	3520.00		
Blank Spacing	31.00			3551.00		
Change Over Sub	1.00			3552.00		
Perforations	15.00			3567.00		
Bullnose	3.00			3570.00	55.00	Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 44750

DST#: 1

ATTN: Rich Bell

Test Start: 2011.12.31 @ 20:59:54

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:

63000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	VSOOW 3%O, 97%W	1.753
125.00	VSGOOW 20%G, 5%O, 75%W	1.753
310.00	VSGOOM 12%G, 3%O, 85%M	4.348
95.00	GM 10%G, 90%M	1.333
110.00	DRL MUD 100%	1.543

Total Length: 765.00 ft

Total Volume: 10.730 bbl

Num Fluid Samples: 0

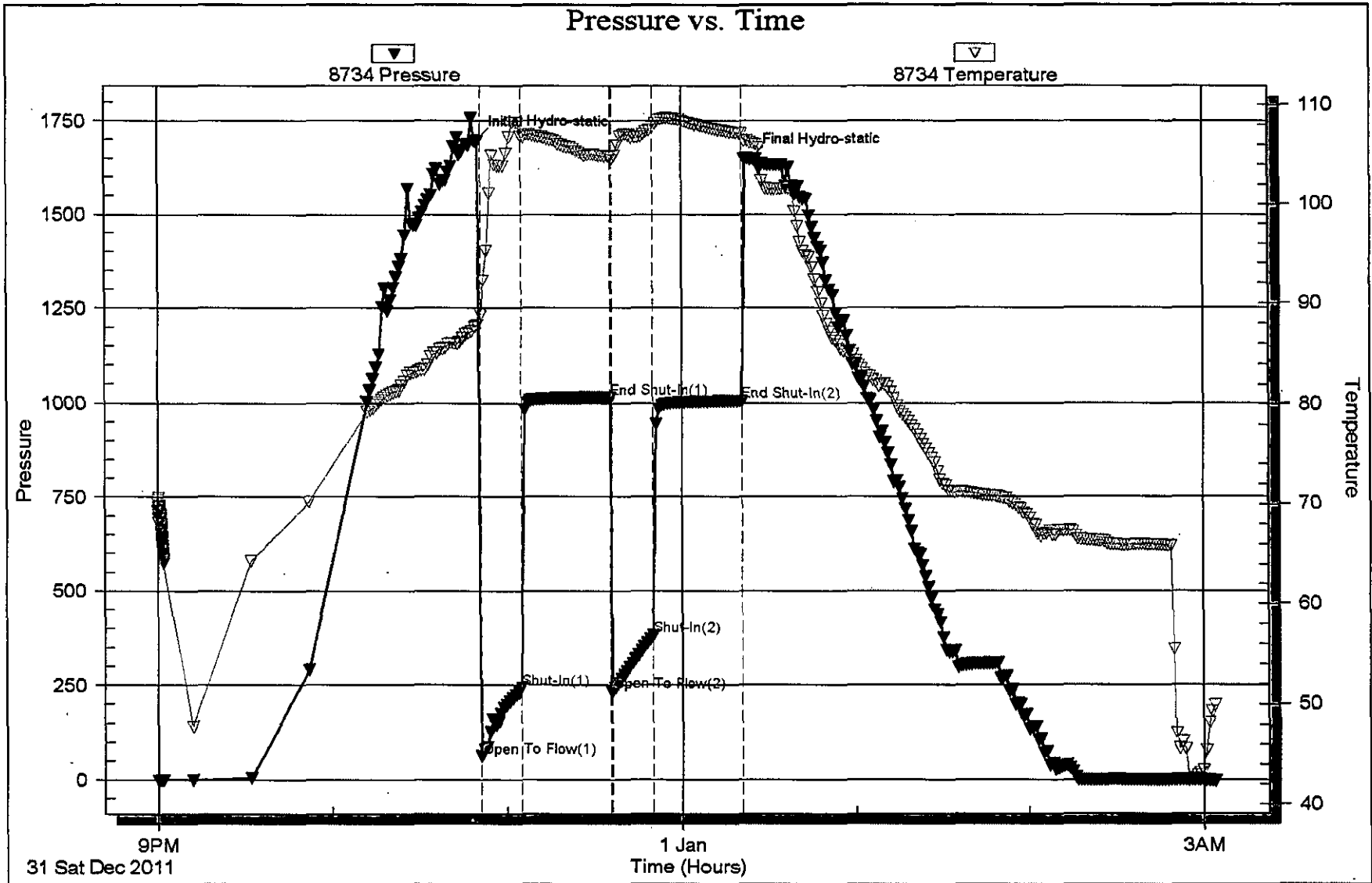
Num Gas Bombs: 0

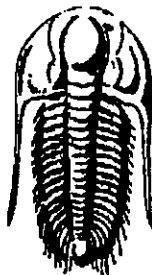
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Richland Oil Investments, LLC**

PO Box 166
Palco, KS 67657

ATTN: Rich Bell

Grecian Trust #1-29

29-9s-21w Graham, KS

Start Date: 2012.01.01 @ 15:04:21

End Date: 2012.01.01 @ 21:12:51

Job Ticket #: 46401 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.05 @ 10:12:50

Richland Oil Investments, LLC

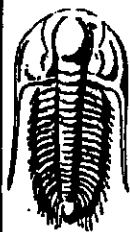
29-9s-21w Graham, KS

Grecian Trust #1-29

DST # 2

LKC "C-G"

2012.01.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Pálco, KS 67657

Grecian Trust #1-29

ATTN: Rich Bell

Job Ticket: 46401 DST#: 2

Test Start: 2012.01.01 @ 15:04:21

GENERAL INFORMATION:

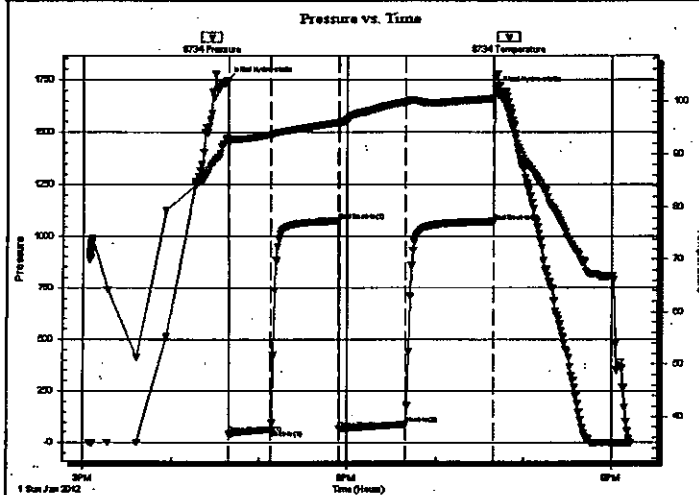
Formation: **LKC "C-G"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 16:39:21
 Time Test Ended: 21:12:51
 Interval: **3584.00 ft (KB) To 3663.00 ft (KB) (TVD)**
 Total Depth: **3663.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **2339.00 ft (KB)**
2332.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 8734

Outside

Press@RunDepth: **87.89 psig @ 3587.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.01.01** End Date: **2012.01.01** Last Calib.: **2012.01.01**
 Start Time: **15:04:22** End Time: **21:12:51** Time On Btm: **2012.01.01 @ 16:37:51**
 Time Off Btm: **2012.01.01 @ 19:41:21**

TEST COMMENT: IFF - weak blow throughout 1/2" - 3"
 ISI - no blow back
 FFP - no blow 4 min - 2 3/4"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.26	93.06	Initial Hydro-static
2	43.66	92.26	Open To Flow (1)
30	62.32	93.64	Shut-In(1)
76	1075.90	96.00	End Shut-In(1)
77	64.79	95.74	Open To Flow (2)
122	87.89	99.80	Shut-In(2)
182	1073.39	100.48	End Shut-In(2)
184	1700.16	104.89	Final Hydro-static

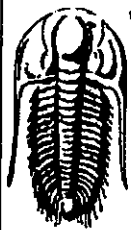
Recovery

Length (ft)	Description	Volume (bbl)
90.00	DRL MUD 100%	1.26

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46401

DST#: 2

ATTN: Rich Bell

Test Start: 2012.01.01 @ 15:04:21

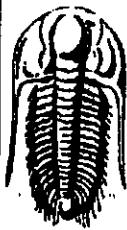
Tool Information

Drill Pipe:	Length: 3582.00 ft	Diameter: 3.80 inches	Volume: 50.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			Total Volume: 50.25 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3584.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	99.00 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			3569.00	
Hydraulic tool	5.00			3574.00	
Packer	5.00			3579.00	20.00 Bottom Of Top Packer
Packer	5.00			3584.00	
Stubb	1.00			3585.00	
Perforations	1.00			3586.00	
Change Over Sub	1.00			3587.00	
Recorder	0.00	6669	Inside	3587.00	
Recorder	0.00	8734	Outside	3587.00	
Blank Spacing	62.00			3649.00	
Change Over Sub	1.00			3650.00	
Perforations	10.00			3660.00	
Bullnose	3.00			3663.00	79.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46401

DST#: 2

ATTN: Rich Bell

Test Start: 2012.01.01 @ 15:04:21

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	DRL MUD 100%	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

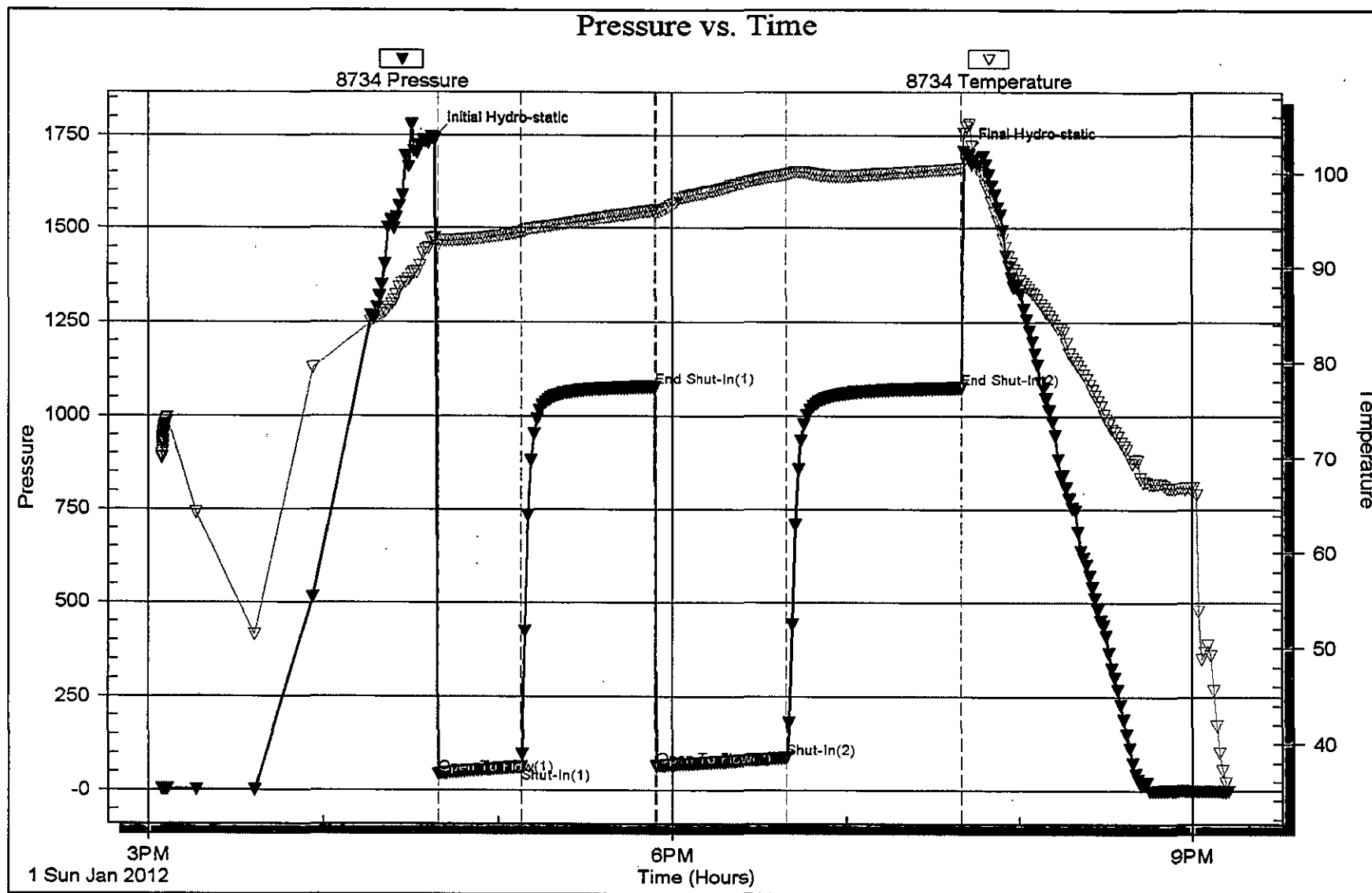
Num Gas Bombs: 0

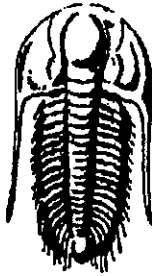
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Richland Oil Investments, LLC**

PO Box 166
Palco, KS 67657

ATTN: Rich Bell

Grecian Trust #1-29

29-9s-21w Graham, KS

Start Date: 2012.01.02 @ 07:52:56

End Date: 2012.01.02 @ 12:05:26

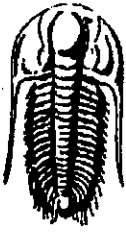
Job Ticket #: 46402 DST #: 3

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

RECEIVED
FEB 21 2012
KCC WICHITA

Printed: 2012.01.05 @ 10:13:05

Richland Oil Investments, LLC 29-9s-21w Graham, KS Grecian Trust #1-29 DST # 3 LKC "J-K" 2012.01.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46402

DST#: 3

ATTN: Rich Bell

Test Start: 2012.01.02 @ 07:52:56

GENERAL INFORMATION:

Formation: **LKC "J-K"**

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

Time Tool Opened: 09:45:26

Time Test Ended: 12:05:26

Interval: **3724.00 ft (KB) To 3757.00 ft (KB) (TVD)**

Total Depth: **3757.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brian Fairbank**

Unit No: **41**

Reference Elevations: **2339.00 ft (KB)**

2332.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8734

Outside

Press@RunDepth: **15.47 psig @ 3729.00 ft (KB)**

Start Date: **2012.01.02**

End Date:

2012.01.02

Start Time: **07:52:57**

End Time:

12:05:26

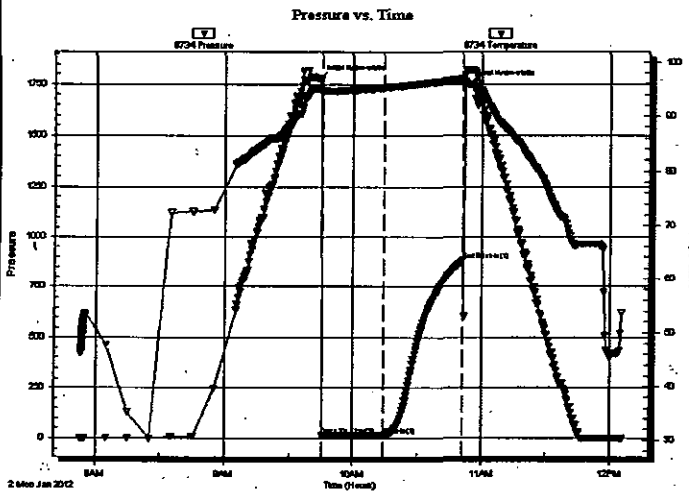
Capacity: **8000.00 psig**

Last Calib.: **2012.01.02**

Time On Btm: **2012.01.02 @ 09:43:56**

Time Off Btm: **2012.01.02 @ 10:53:56**

TEST COMMENT: IFP - sur blow - died 22 min
ISI - no blow back
TIME - 30-30



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.55	95.05	Initial Hydro-static
2	13.59	94.56	Open To Flow (1)
31	15.47	95.30	Shut-In(1)
67	880.00	96.84	End Shut-In(1)
70	1749.14	98.50	Final Hydro-static

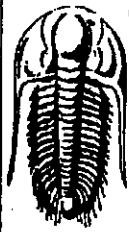
Recovery

Length (ft)	Description	Volume (bbl)
3.00	drl mud 100%	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46402

DST#: 3

ATTN: Rich Bell

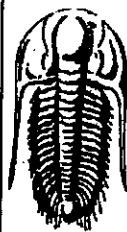
Test Start: 2012.01.02 @ 07:52:56

Tool Information

Drill Pipe:	Length: 3738.00 ft	Diameter: 3.80 inches	Volume: 52.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
		Total Volume:	52.43 bbl	Tool Chased 3.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3724.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	5.00			3719.00	20.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Perforations	4.00			3729.00	
Recorder	0.00	6669	Inside	3729.00	
Recorder	0.00	8734	Outside	3729.00	
Perforations	25.00			3754.00	
Bullnose	3.00			3757.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Greclan Trust #1-29

Job Ticket: 46402 **DST#: 3**

ATTN: Rich Bell

Test Start: 2012.01.02 @ 07:52:56

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

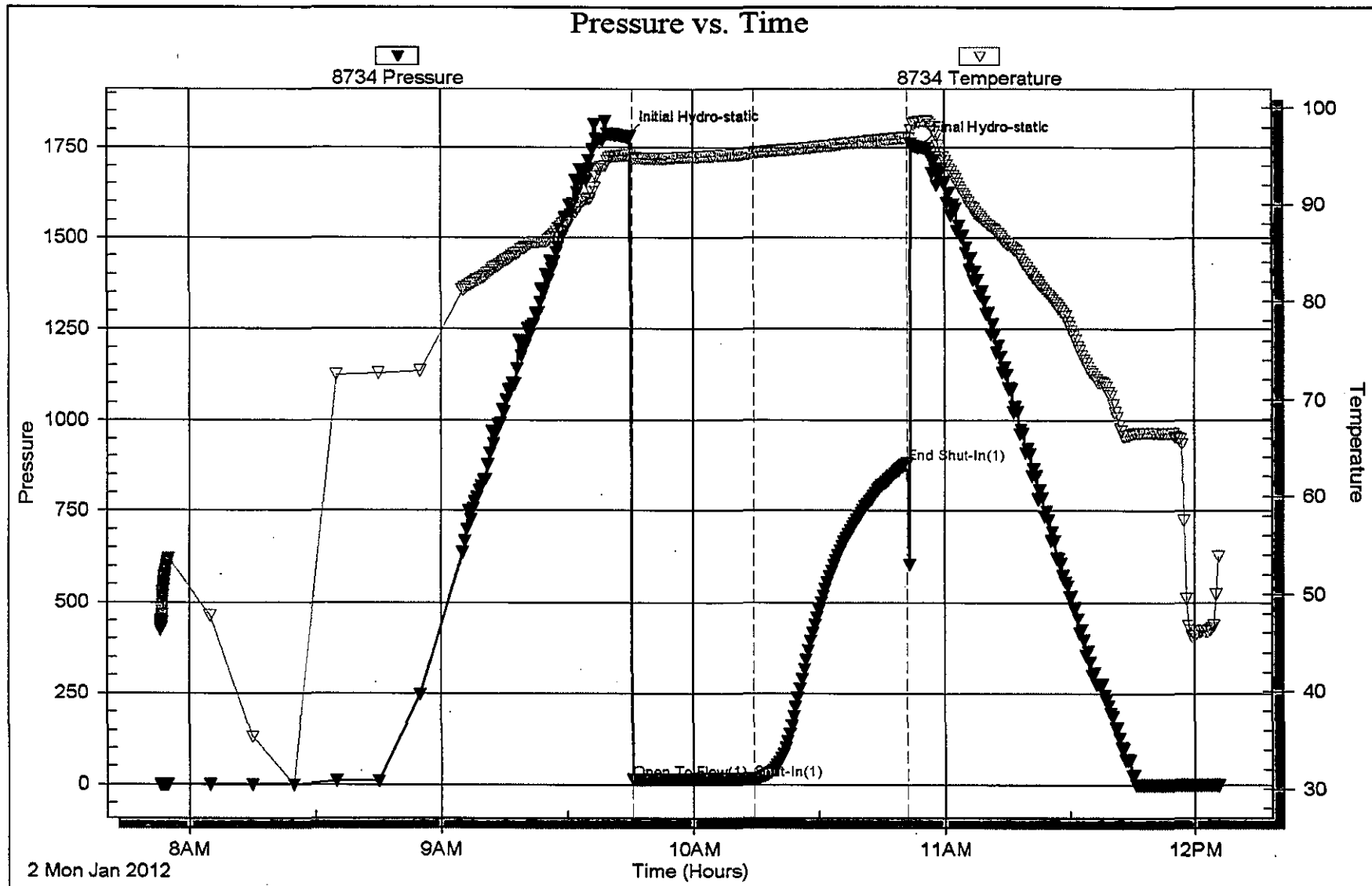
Length ft.	Description	Volume bbl
3.00	drl mud 100%	0.042

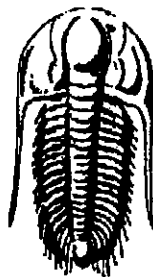
Total Length: 3.00 ft Total Volume: 0.042 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Richland Oil Investments, LLC**

PO Box 166
Palco, KS 67657

ATTN: Rich Bell

Grecian Trust #1-29

29-9s-21w Graham, KS

Start Date: 2012.01.03 @ 01:14:55

End Date: 2012.01.03 @ 08:42:25

Job Ticket #: 46403 DST #: 4

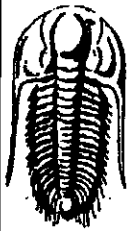
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.05 @ 10:13:23

Richland Oil Investments, LLC 29-9s-21w Graham, KS Grecian Trust #1-29 DST # 4 Arbuckle 2012.01.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46403

DST#: 4

ATTN: Rich Bell

Test Start: 2012.01.03 @ 01:14:55

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:28:55

Time Test Ended: 08:42:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: **3842.00 ft (KB) To 3889.00 ft (KB) (TVD)**

Reference Elevations: 2339.00 ft (KB)

Total Depth: 3889.00 ft (KB) (TVD)

2332.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: **8734**

Outside

Press@RunDepth: 574.78 psig @ 3849.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.03

End Date:

2012.01.03

Last Calib.: 2012.01.03

Start Time: 01:14:56

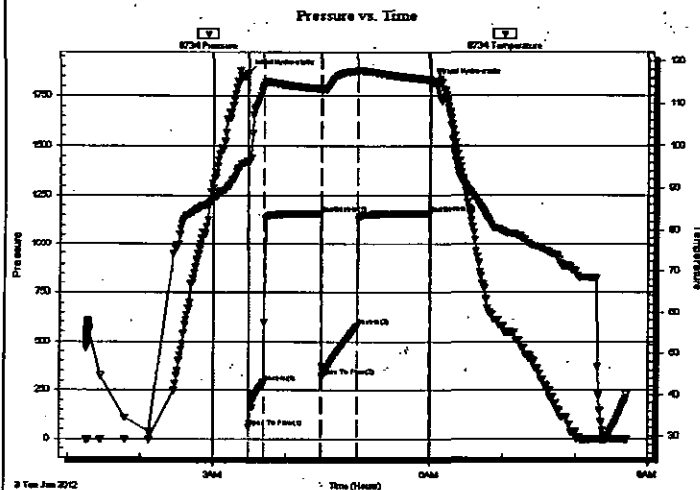
End Time:

08:42:25

Time On Btm: 2012.01.03 @ 03:27:55

Time Off Btm: 2012.01.03 @ 06:03:25

TEST COMMENT: IFP - BOB 1 1/2 min
ISI - sur blow back - died 27 min
FFP - BOB 2 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.54	96.37	Initial Hydro-static
1	57.65	96.08	Open To Flow (1)
14	290.28	113.96	Shut-In(1)
60	1157.27	113.45	End Shut-In(1)
62	323.69	113.18	Open To Flow (2)
91	574.78	117.65	Shut-In(2)
151	1157.02	115.60	End Shut-In(2)
156	1815.49	114.74	Final Hydro-static

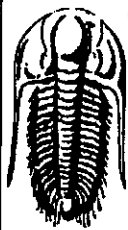
Recovery

Length (ft)	Description	Volume (bbl)
155.00	O & MCW 5%O, 85%W, 10%M	2.17
835.00	M & WCO 70%O, 20%W, 10%M	11.71
275.00	SOCM 5%O, 95%M	3.86

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46403 **DST#: 4**

ATTN: Rich Bell

Test Start: 2012.01.03 @ 01:14:55

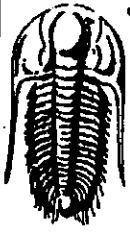
Tool Information

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 53.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	3842.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	67.00 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			3827.00	
Hydraulic tool	5.00			3832.00	
Packer	5.00			3837.00	20.00 Bottom Of Top Packer
Packer	5.00			3842.00	
Stubb	1.00			3843.00	
Perforations	5.00			3848.00	
Change Over Sub	1.00			3849.00	
Recorder	0.00	6669	Inside	3849.00	
Recorder	0.00	8734	Outside	3849.00	
Blank Spacing	31.00			3880.00	
Change Over Sub	1.00			3881.00	
Perforations	5.00			3886.00	
Bullnose	3.00			3889.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments, LLC

29-9s-21w Graham, KS

PO Box 166
Palco, KS 67657

Grecian Trust #1-29

Job Ticket: 46403 DST#: 4

ATTN: Rich Bell

Test Start: 2012.01.03 @ 01:14:55

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	32000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	O & MCW 5%O, 85%W, 10%M	2.174
835.00	M & WCO 70%O, 20%W, 10%M	11.713
275.00	SOCM 5%O, 95%M	3.858

Total Length: 1265.00 ft Total Volume: 17.745 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

