



KANSAS CORPORATION COMMISSION 1052985
OIL & GAS CONSERVATION DIVISION

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

OPERATOR: License # 33936
Name: Griffin, Charles N.
Address 1: PO BOX 347
Address 2: _____
City: PRATT State: KS Zip: 67124 + 0347
Contact Person: Charles N. Griffin
Phone: (720) 490-5648
CONTRACTOR: License # 34233
Name: Maverick Drilling LLC
Wellsite Geologist: Bruce A. Reed
Purchaser: Oneok

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 #: _____

11/02/2010	11/11/2010	12/14/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21717-00-00
Spot Description: _____
SE SW NW Sec. 29 Twp. 32 S. R. 9 East West
2,310 Feet from North / South Line of Section
990 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Harper
Lease Name: FERGUSON Well #: 1

Field Name: Little Sandy Creek East

Producing Formation: Mississippi

Elevation: Ground: 1399 Kelly Bushing: 1408

Total Depth: 4799 Plug Back Total Depth: 4500

Amount of Surface Pipe Set and Cemented at: 269 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 870 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Rains & Williamson Oil Co. Inc

Lease Name: Hagon SWD License #: 5146

Quarter NW Sec. 23 Twp. 32 S. R. 10 East West

County: Barber Permit #: D-30349

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.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanne Garrison Date: 05/19/2011



1052985

Operator Name: Griffin, Charles N. Lease Name: FERGUSON Well #: 1
 Sec. 29 Twp. 32 S. R. 9 East West County: Harper

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: <small>Dual Induction Log Compensated Density Neutron Log Cement Sonic Bond Log</small>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	8.625	23	269	Common	300	Salt, Gas Blok, Gijsonite
Production	7.875	5.5	15.5	4500	AA2	175	

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
3	4338-4342	1000 Gals 10% HCL acid	

TUBING RECORD:		Size: <u>2.375</u>	Set At: <u>4309</u>	Packer At: <u>N/A</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>03/19/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Plunger Lift</u>			
Estimated Production Per 24 Hours	Oil Bbls. <u>.5</u>	Gas Mcf <u>100</u>	Water Bbls. <u>15</u>	Gas-Oil Ratio	Gravity <u>32</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4338-4342</u>
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Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	FERGUSON 1
Doc ID	1052985

Tops

Name	Top	Datum
Heebner	3378	1970
Lansing	3736	2328
Kansas City	3901	2493
Bottom Kansas City	4124	2716
Cherokee	4288	2800
Mississippi	4337	2929
Viola	4666	3258
Simpson	4761	3353



BASIC

ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 02945 A

29-325-9W

DATE _____ TICKET NO. _____

DATE OF JOB: 11-3-10		DISTRICT: Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Griffin Management				LEASE: Ferguson				WELL NO. 1	
ADDRESS:				COUNTY: Harper		STATE: Kansas			
CITY:		STATE:		SERVICE CREW: C. Messick, M. Mattal, L. Wiser					
AUTHORIZED BY:				JOB TYPE: C.N.W. - Surface					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
19,866	.5						11-3-10	AM	8:00
						ARRIVED AT JOB		AM/PM	10:30
19,903-19,905	.5					START OPERATION		AM/PM	1:15
						FINISH OPERATION		AM/PM	1:45
19,831-19,862	.5					RELEASED	11-3-10	AM/PM	2:00
						MILES FROM STATION TO WELL	4.5		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100	Common	sk	200		\$ 3,200.00
CC 102	Cellflake	Lb	50		\$ 185.00
CC 109	Calcium Chloride	Lb	376		\$ 394.80
CF 153	Wooden Plug, 8 7/8"	ea	1		\$ 160.00
E 100	Pickup Mileage	mi	45		\$ 191.25
E 101	Heavy Equipment Mileage	mi	90		\$ 630.00
E 113	Bulk Delivery	tm	423		\$ 676.80
CE 200	Cement Pump: 0 Feet To 500 Feet	hrs	4		\$ 1,000.00
CE 240	Blending and Mixing Service	sk	200		\$ 280.00
CE 504	Plug Container	Job	1		\$ 250.00
S 003	Service Supervisor	Job	1		\$ 175.00

SUB TOTAL
DLS \$ 5,142.85

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: <i>Gregory R. M. [Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Terry J. [Signature]</i>
--	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718.02696 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-12-10		DISTRICT KANSAS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:	
CUSTOMER Griffin Management		LEASE Ferguson		WELL NO. 1	
ADDRESS		COUNTY Harper 29-32-9 STATE KANS.			
CITY		STATE			
AUTHORIZED BY		SERVICE CREW A. Worth, C. Neach, M. Mcbram			
		JOB TYPE 4 1/2" long string CNW			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
26443 DU	1 1/2				
27463 PT	1 1/2				
19826-19860	1 1/2				
		TRUCK CALLED		DATE 11-11-10 AM 5:00 TIME	
		ARRIVED AT JOB		11-11-10 AM 7:15	
		START OPERATION		11-12-10 AM 4:00	
		FINISH OPERATION		11-12-10 AM 5:30	
		RELEASED		11-12-10 AM 6:30	
		MILES FROM STATION TO WELL 45 miles			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

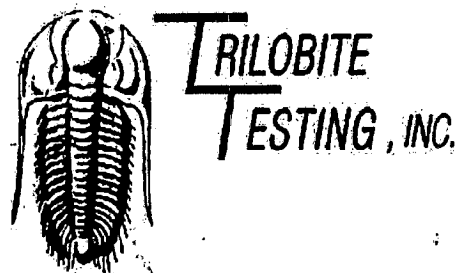
ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 cement	SK	150		\$ 2550.00
CP103	60/40 Poz	SK	50		\$ 600.00
CC102	cell flake	lb	38		\$ 140.60
CC111	salt fine	lb	685		\$ 342.50
CC112	cement friction reducer	lb	71		\$ 926.00
CC115	Gas Blok	lb	141		\$ 726.15
CC201	Gilsonite	lb	250		\$ 502.50
CF606	latch down plug & Baffle 4 1/2 Blue	EA	1		\$ 370.00
CF1250	Auto Fill Float shoe 4 1/2 Blue	EA	1		\$ 330.00
CF1650	Turbolizer 4 1/2 Blue	EA	3		\$ 255.00
CF1900	4 1/2" Basket Blue	EA	1		\$ 270.00
CT04	CS-11, KIL sub	gal	5		\$ 175.00
CC151	Mud Flush	gal	500		\$ 430.00
E100	unit mileage charge pickup	mi	45		\$ 191.25
E101	Heavy Equip mileage	mi	90		\$ 630.00
E113	Bulk Delivery Charge	Tm	414		\$ 662.40
CE205	Depth Charge 4001-5000	4-hrs	1		\$ 2500.00
CE240	Blending & mixing service chg.	SK	200		\$ 280.00
CE304	Plug container utilization chg.	Tob	1		\$ 280.00
S003	service supervisor first 8hrs onlc. 1EA	EA	1		\$ 250.00
				SUB TOTAL	\$ 8515.01
CHEMICAL / ACID DATA:				DLS	\$ 175.00
				SERVICE & EQUIPMENT	%TAX ON \$
				MATERIALS	%TAX ON \$
				TOTAL	\$ 8515.01

SERVICE REPRESENTATIVE **Allen F. Worth**

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reid

29-32s-9w Harper KS

Ferguson #1

Start Date: 2010.11.08 @ 19:10:33

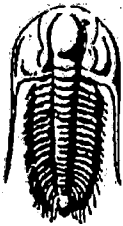
End Date: 2010.11.09 @ 02:33:33

Job Ticket #: 039222 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039222 DST#: 1

ATTN: Bruce Reid

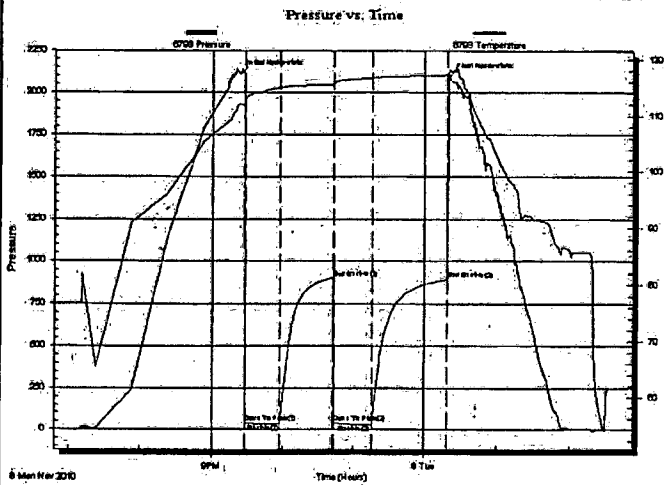
Test Start: 2010.11.08 @ 19:10:33

GENERAL INFORMATION:

Formation: Mississippi
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:27:48
 Time Test Ended: 02:33:33
 Interval: 4316.00 ft (KB) To 4350.00 ft (KB) (TVD)
 Total Depth: 4350.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole
 Tester: Gary Pavoteaux
 Unit No: 45
 Reference Elevations: 1406.00 ft (KB)
 1399.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 32.09 psig @ 4317.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2010.11.08 End Date: 2010.11.09
 Last Calib.: 2010.11.09
 Start Time: 19:10:34 End Time: 02:33:33
 Time On Btm: 2010.11.08 @ 21:23:48
 Time Off Btm: 2010.11.09 @ 00:21:03

TEST COMMENT: IF: Strong blow, BOB in 2 minutes
 IS: Bled off, No blow back
 FF: Strong blow, BOB immediately, GTS in 8 minutes,
 FS: Bled off, No blow back



PRESSURE SUMMARY

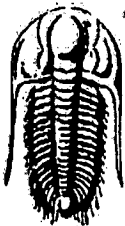
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.23	111.99	Initial Hydro-static
4	41.64	112.56	Open To Flow (1)
34	35.39	114.97	Shut-In (1)
79	902.25	115.53	End Shut-In (1)
80	42.05	115.71	Open To Flow (2)
112	32.09	116.65	Shut-In (2)
176	894.80	117.26	End Shut-In (2)
178	2098.94	118.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	DRLG MUD	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.50	25.38
Last Gas Rate	0.25	1.50	25.38
Max. Gas Rate	0.25	1.50	25.38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039222

DST#: 1

ATTN: Bruce Reid

Test Start: 2010.11.08 @ 19:10:33

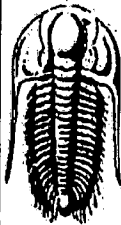
Tool Information

Drill Pipe:	Length: 4326.00 ft	Diameter: 3.80 inches	Volume: 60.68 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			Total Volume: 60.68 bbl	Tool Chased: ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4316.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 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			4301.00	
Hydraulic tool	5.00			4306.00	
Packer	5.00			4311.00	20.00 Bottom Of Top Packer
Packer	5.00			4316.00	
Stubb	1.00			4317.00	
Recorder	0.00	6798	Inside	4317.00	
Recorder	0.00	8367	Outside	4317.00	
Perforations	30.00			4347.00	
Bullnose	3.00			4350.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039222 DST#: 1

ATTN: Bruce Reid

Test Start: 2010.11.08 @ 19:10:33

Mud and Cushion Information

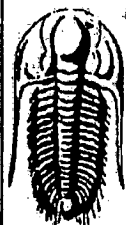
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	5500 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.34 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	DRLG MUD	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 1 Serial#: GP-1
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039222 **DST#: 1**

ATTN: Bruce Reid

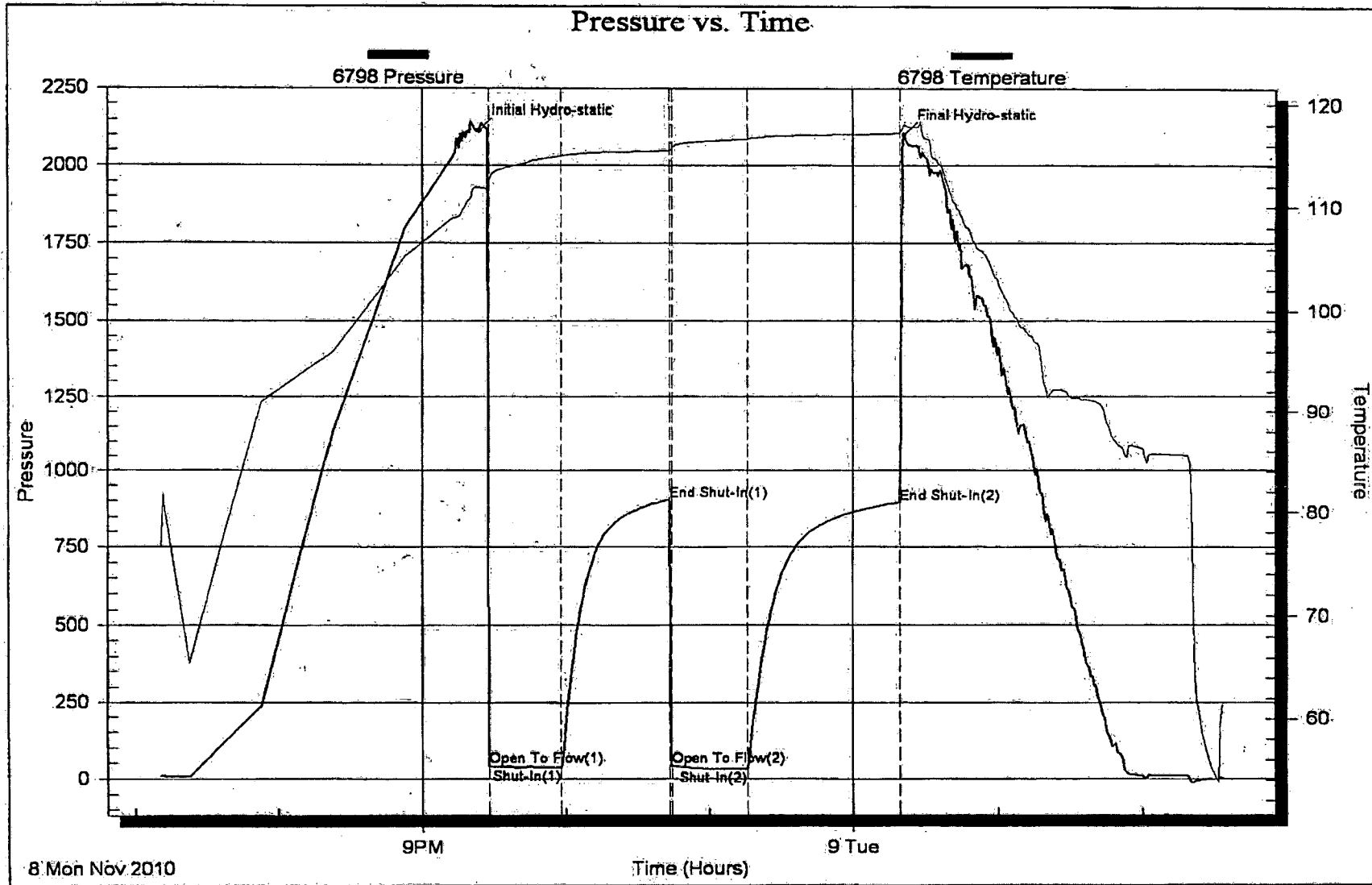
Test Start: 2010.11.08 @ 19:10:33

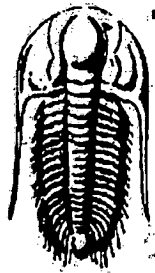
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	1.50	25.38
2	10	0.25	1.50	25.38
2	20	0.25	1.50	25.38





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reid

29-32s-9w Harper KS

Ferguson #1

Start Date: 2010.11.09 @ 11:56:25

End Date: 2010.11.09 @ 18:25:10

Job Ticket #: 039223 DST #: 2

Trilobite Testing, Inc

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

Charles N Griffin

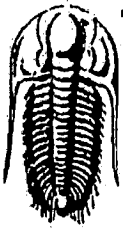
Ferguson #1

29-32s-9w Harper KS

DST # 2

Mississippi

2010.11.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039223 DST#: 2

ATTN: Bruce Reid

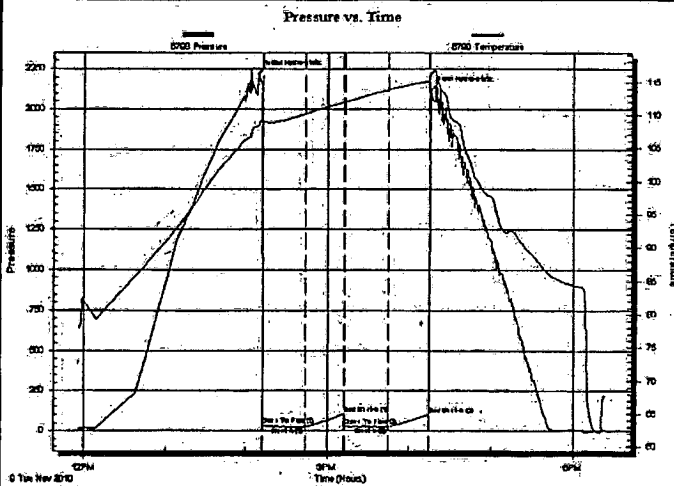
Test Start: 2010.11.09 @ 11:56:25

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **14:11:55**
 Tester: **Leal Cason**
 Time Test Ended: **18:25:10**
 Unit No.: **45**
 Interval: **4350.00 ft (KB) To 4365.00 ft (KB) (TVD)**
 Reference Elevations: **1406.00 ft (KB)**
 Total Depth: **4350.00 ft (KB) (TVD)**
1399.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 KB to GR/CF: **7.00 ft**

Serial #: 6798 Inside
 Press@RunDepth: **26.69 psig @ 4351.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.11.09** End Date: **2010.11.09** Last Calib.: **2010.11.09**
 Start Time: **11:56:26** End Time: **18:25:10** Time On Btm: **2010.11.09 @ 14:08:55**
 Time Off Btm: **2010.11.09 @ 16:15:55**

TEST COMMENT: IF: Weak blow, built to 2 in
 IS: Bleed off, No blow back
 FF: Weak blow, built to 1 1/2 in
 FS: Bleed off, No blow back



PRESSURE SUMMARY

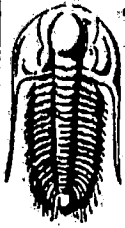
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.60	108.35	Initial Hydro-static
3	37.10	108.95	Open To Flow (1)
35	26.24	110.17	Shut-In(1)
64	105.85	111.95	End Shut-In(1)
65	27.93	112.00	Open To Flow (2)
96	26.69	113.81	Shut-In(2)
127	100.76	115.16	End Shut-In(2)
127	2119.17	116.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	DRLG MUD	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039223

DST#: 2

ATTN: Bruce Reid

Test Start: 2010.11.09 @ 11:56:25

Tool Information

Drill Pipe:	Length: 4360.00 ft	Diameter: 3.80 inches	Volume: 61.16 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: 70000.00 lb
			Total Volume: 61.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4350.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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			4335.00	
Hydraulic tool	5.00			4340.00	
Packer	5.00			4345.00	20.00 Bottom Of Top Packer
Packer	5.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	6798	Inside	4351.00	
Recorder	0.00	8367	Outside	4351.00	
Perforations	11.00			4362.00	
Bullnose	3.00			4365.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

Ferguson #1

PO Box 347
Pratt, KS 67124

29-32s-9w Harper KS

Job Ticket: 039223 DST#: 2

ATTN: Bruce Reid

Test Start: 2010.11.09 @ 11:56:25

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:

6000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.33 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	DRLG.MUD	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:

