



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1234464  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-  
Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-  
Feet from  North /  South Line of Section

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-  
Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1234464

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	TGT Petroleum Corporation
Well Name	Heft B 2
Doc ID	1234464

All Electric Logs Run

Dual Spaced Neutron Density
MicroLog
Sonic Array
Array Comp. Resistivity

Form	ACO1 - Well Completion
Operator	TGT Petroleum Corporation
Well Name	Heft B 2
Doc ID	1234464

Tops

Name	Top	Datum
Topeka	3704	(-1478)
Heebner	4046	(-1820)
Brown Lime	4205	(-1979)
Lansing	4212	(-1986)
BKC	4600	(-2376)
Cherokee	4730	(-2504)
Mississippi	4778	(-2552)
Kinderhook Sand	4844	(-2618)
Total Depth	4950	(-2724)





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1004250	1718	11/10/2014
<b>INVOICE NUMBER</b>			
<b>91645388</b>			

Pratt (620) 672-1201

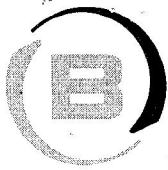
B TGT PETROLEUM CORP  
 I PO Box: 75097  
 L WICHITA  
 L KS US 67275  
 T  
 O **ATTN:** ACCOUNTS PAYABLE

J LEASE NAME Heft B 2  
 O LOCATION  
 B COUNTY Kiowa  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40785662	19905		Net - 30 days	12/10/2014	
		<b>QTY</b>	<b>U of M</b>	<b>UNIT PRICE</b>	<b>INVOICE AMOUNT</b>
<i>For Service Dates: 11/09/2014 to 11/09/2014</i>					
0040785662					
171811829A Cement-New Well Casing/Pi 11/09/2014 Cement 8 5/8 Surface					
A-Con Blend Common 400.00 EA 13.86 5,544.00 T					
Common Cement 200.00 EA 12.32 2,464.00 T					
Celloflake 100.00 EA 2.85 284.90 T					
Calcium Chloride 1,128.00 EA 0.81 911.99 T					
"Top Rubber Cmt Plug, 8 5/8"" 1.00 EA 173.25 173.25					
"Baffle Plate Alum., 8 5/8"" (Blue)" 1.00 EA 130.90 130.90					
"Unit Mileage Chg (PU, cars one way)" 35.00 MI 3.47 121.28					
Heavy Equipment Mileage 105.00 MI 5.77 606.37					
"Proppant & Bulk Del. Chgs., per ton mil 987.00 EA 1.92 1,899.97					
Depth Charge; 501'-1000' 1.00 EA 924.00 924.00					
Blending & Mixing Service Charge 600.00 BAG 1.08 646.80					
Plug Container Util. Chg. 1.00 EA 192.50 192.50					
"Service Supervisor, first 8 hrs on loc. 1.00 EA 134.75 134.75					

516-05-05

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>14,034.71</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>658.15</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>14,692.86</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		



**BASIC**<sup>SM</sup>  
**ENERGY SERVICES**  
 PRESSURE PUMPING & WIRELINE

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

**FIELD SERVICE TICKET**  
 1718 \_\_\_\_\_ A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER				LEASE				WELL NO.							
ADDRESS				COUNTY				STATE							
CITY				STATE				SERVICE CREW							
AUTHORIZED BY				JOB TYPE:											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB									
						START OPERATION									
						FINISH OPERATION									
						RELEASED									
						MILES FROM STATION TO WELL									

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
			100		370 00
			1128		1184 40
					225 00
					170 00
					157 50
			103		787 50
			987		2467 50
					1200 00
					840 00
					250 00
					175 00

SUB TOTAL 18,226.90

CHEMICAL / ACID DATA:			

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

TOTAL 14,034.21

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

FIELD SERVICE ORDER NO. \_\_\_\_\_ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)







1 of 1	1004250	1717	11/25/2014
<b>INVOICE NUMBER</b>			
<b>91660057</b>			

**Liberal** (620) 624-2277

B TGT PETROLEUM CORP  
 I PO Box: 75097  
 L WICHITA

KS US 67275

T  
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Heft "B" # 2  
 O **LOCATION**  
 B **COUNTY** Kiowa  
 S **STATE** KS  
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi  
 T  
 E **JOB CONTACT**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40790940	27462		Net - 30 days	12/25/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 11/22/2014 to 11/22/2014</b>				
0040790940				
171705086A Cement-New Well Casing/Pi 11/22/2014				
4 1/2 PTA				
60/40 POZ	200.00	EA	9.24	1,847.99 T
Cement Gel	344.00	EA	0.19	66.22 T
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.47	121.28
Heavy Equipment Mileage	70.00	MI	5.78	404.25
"Proppant & Bulk Del. Chgs., per ton mil	301.00	EA	1.93	579.43
Depth Charge; 1001'-2000'	1.00	EA	1,155.00	1,155.00
Blending & Mixing Service Charge	200.00	BAG	1.08	215.60
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.75	134.75

516-05-05

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>4,524.52</b>
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	<b>TAX</b>	<b>136.87</b>
PO BOX 841903	801 CHERRY ST, STE 2100	<b>INVOICE TOTAL</b>	<b>4,661.39</b>
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
171705086 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 11-22-14	DISTRICT: 1717-Liberal, KS	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: TGT Petroleum Corp	LEASE: Helt B #2	WELL NO.:								
ADDRESS:	COUNTY: Kiowa	STATE: KS								
CITY:	STATE:	SERVICE CREW: E Mendoza, A Echavon								
AUTHORIZED BY: J Bennett	JOB TYPE: 242-4 1/2" PTH									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
31770	8						11-22-14			
37462	8									
14355	8									
31547	8									
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL	35 mi			

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: *Mike Kuhn*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL103	60/40 Poz	SK	200		2400 00
CC200	Cement Grout	lb	344		86 00
E100	Unit Mileage	mi	35		157 50
E101	Heavy Equipment Mileage	mi	70		525 00
E113	Proppant to Bulk Delivery	cu yd	301		752 50
CE202	Pump Depth: 1001-2000' O	unit	1		1500 00
CE240	Blending & Mixing Service	SK	200		280 00
S003	Service O Supervisor	EA	1		175 00

SUB TOTAL *4524.50*

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: *Paul Slava* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Mike Kuhn*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TGT Petroleum Corporation  
7570 W 21st St N Ste 1010D  
Wichita, KS 67205  
ATTN: Jeff Christian

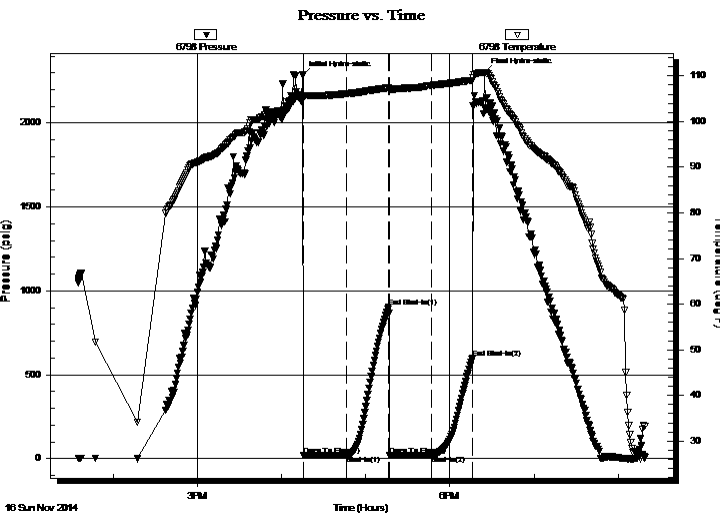
**5-28S-18W Kiowa**  
**Heft B 2**  
Job Ticket: 59885      **DST#: 1**  
Test Start: 2014.11.16 @ 13:35:22

## GENERAL INFORMATION:

Formation: **LKC "H & I"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:15:52  
Time Test Ended: 20:18:52  
Interval: **4396.00 ft (KB) To 4434.00 ft (KB) (TVD)**  
Total Depth: 4434.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2226.00 ft (KB)  
2216.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6798      Inside**  
Press @ Run Depth: 22.51 psig @ 4397.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.11.16      End Date: 2014.11.16      Last Calib.: 2014.11.16  
Start Time: 13:35:23      End Time: 20:18:52      Time On Btm: 2014.11.16 @ 16:15:07  
Time Off Btm: 2014.11.16 @ 18:24:52

**TEST COMMENT:** IF: Weak 1/8 inch Blow  
IS: No Blow Back  
FF: Weak 1/8 inch Blow  
FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.01	105.65	Initial Hydro-static
1	18.55	105.26	Open To Flow (1)
31	20.74	106.08	Shut-In(1)
62	902.79	107.39	End Shut-In(1)
62	20.62	107.08	Open To Flow (2)
92	22.51	107.93	Shut-In(2)
121	600.73	109.05	End Shut-In(2)
130	2302.70	110.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59885

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2014.11.16 @ 13:35:22

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

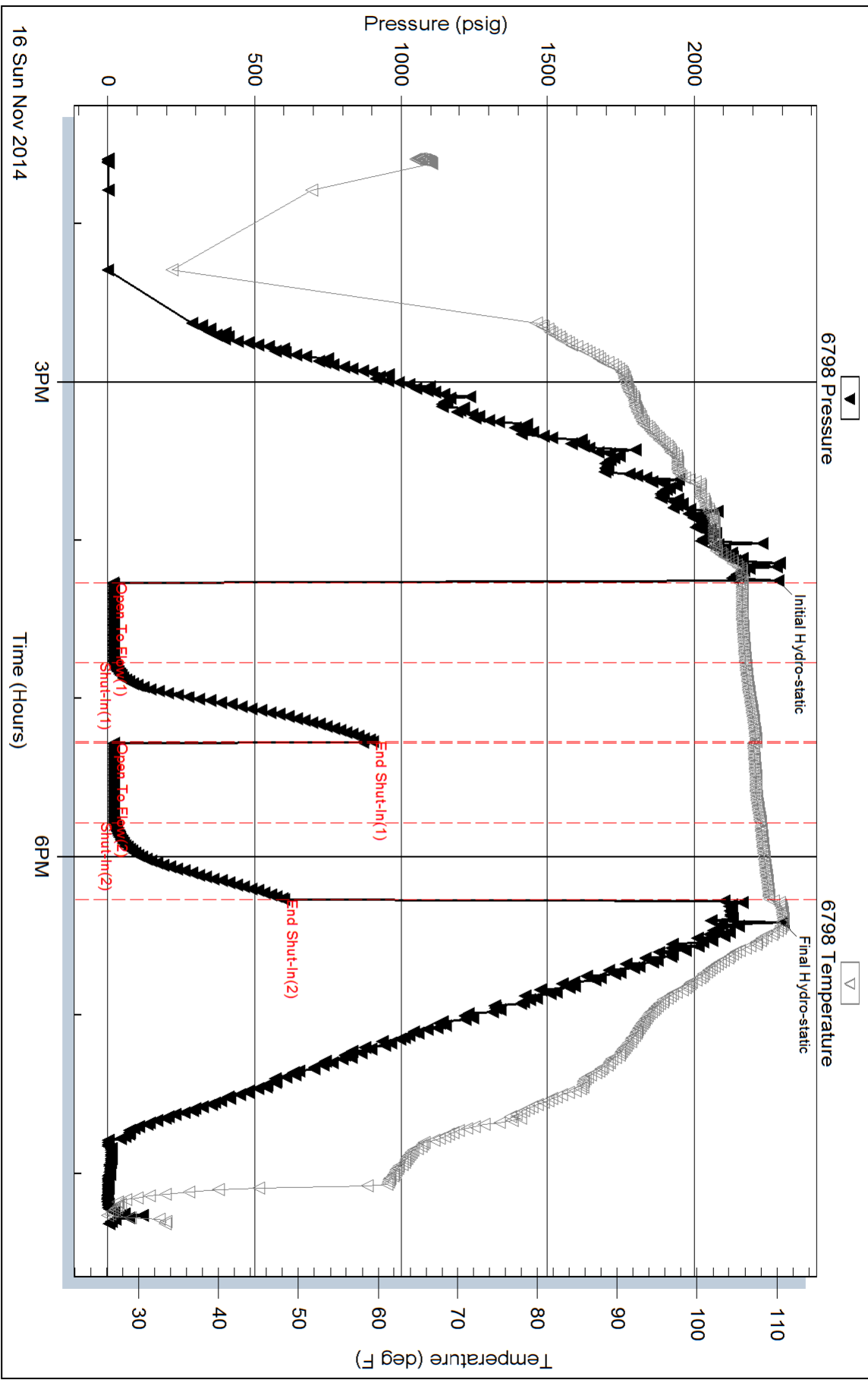
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

TGT Petroleum Corporation  
 7570 W 21st St N Ste 1010D  
 Wichita, KS 67205  
 ATTN: Jeff Christian

**5-28S-18W Kiowa**  
**Heft B 2**  
 Job Ticket: 59886      **DST#: 2**  
 Test Start: 2014.11.17 @ 08:46:06

## GENERAL INFORMATION:

Formation: **LKC "J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:21:51  
 Time Test Ended: 16:21:21  
 Interval: **4458.00 ft (KB) To 4470.00 ft (KB) (TVD)**  
 Total Depth: 4470.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 2226.00 ft (KB)  
 2216.00 ft (CF)  
 KB to GR/CF: 10.00 ft

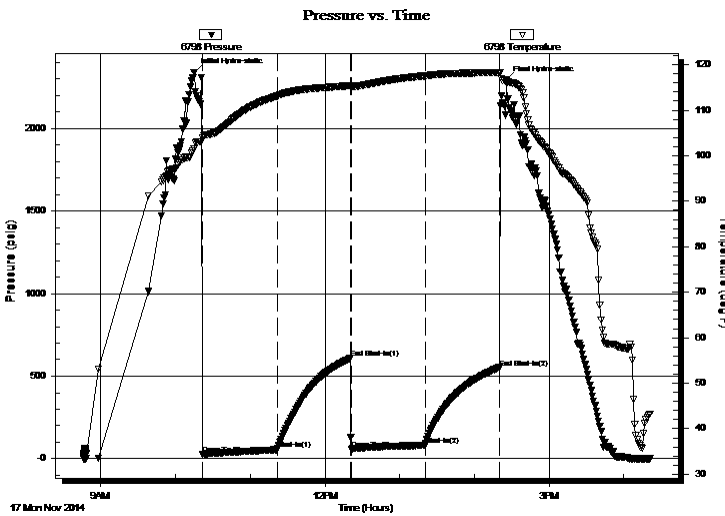
## Serial #: 6798

Inside

Press @ Run Depth: 82.40 psig @ 4459.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.11.17      End Date: 2014.11.17      Last Calib.: 2014.11.17  
 Start Time: 08:46:07      End Time: 16:21:21      Time On Btm: 2014.11.17 @ 10:14:51  
 Time Off Btm: 2014.11.17 @ 14:25:36

**TEST COMMENT:** IF: Strong Blow , BOB in 90 seconds  
 IS: Weak Surface Blow Back  
 FF: Fair Blow , BOB in 11 minutes  
 FS: Weak Surface Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.47	101.56	Initial Hydro-static
7	27.75	103.95	Open To Flow (1)
67	57.65	113.07	Shut-In(1)
126	608.50	115.36	End Shut-In(1)
127	58.30	115.22	Open To Flow (2)
186	82.40	117.53	Shut-In(2)
246	552.05	118.29	End Shut-In(2)
251	2291.64	116.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	650 GIP	0.00
62.00	SOMCW 4%O 12%M 84%W	0.87
82.00	GSZY SOCM 5%G 5%O 90%M	1.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59886

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2014.11.17 @ 08:46:06

### 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:

35000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	650 GIP	0.000
62.00	SOMCW 4%O 12%M 84%W	0.870
82.00	GSZY SOCM 5%G 5%O 90%M	1.150

Total Length: 144.00 ft      Total Volume: 2.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .31 @ 46 degrees



Serial #: 6798

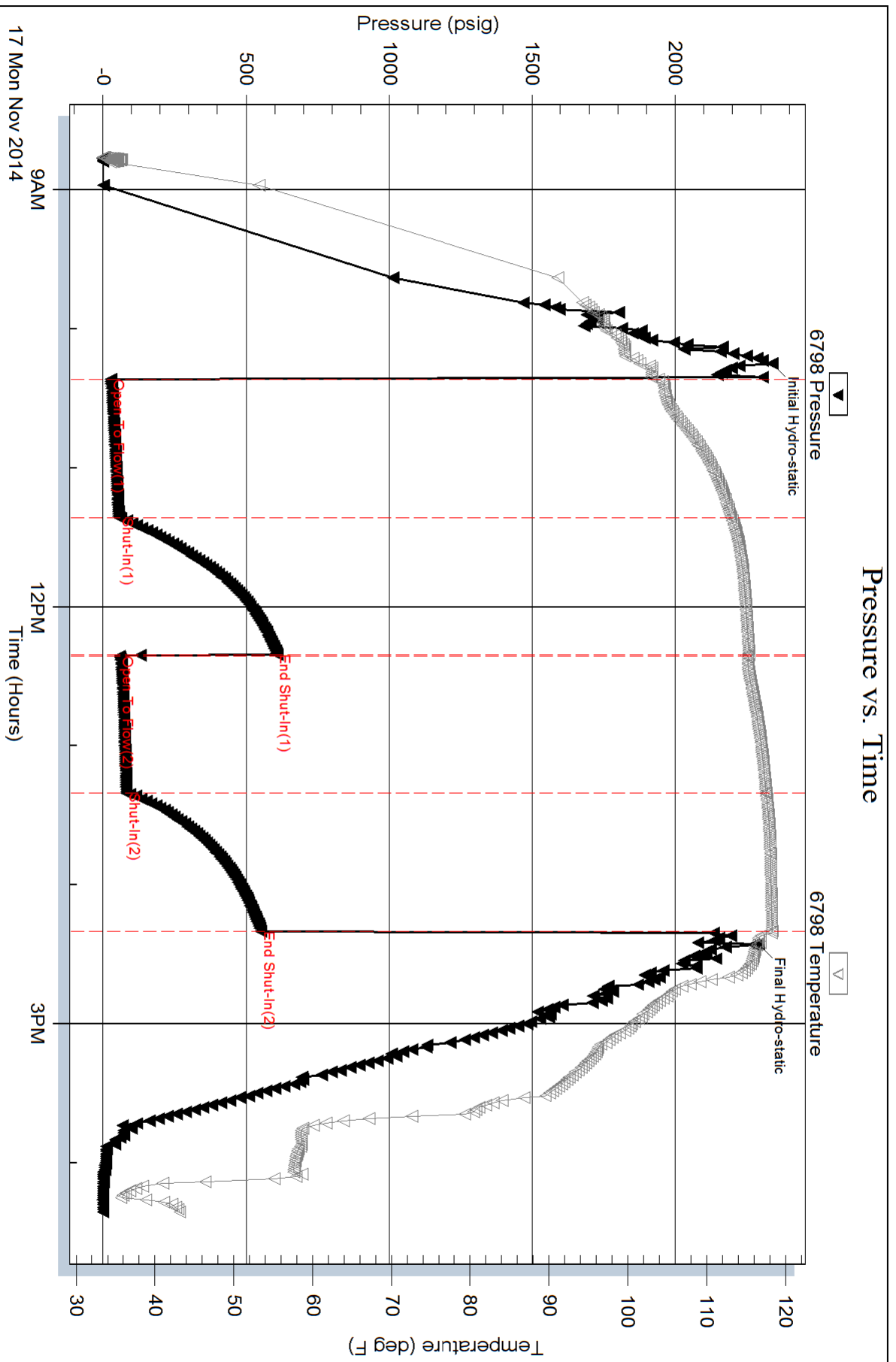
Inside

TGT Petroleum Corporation

Heft B 2

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TGT Petroleum Corporation  
 7570 W 21st St N Ste 1010D  
 Wichita, KS 67205  
 ATTN: Jeff Christian

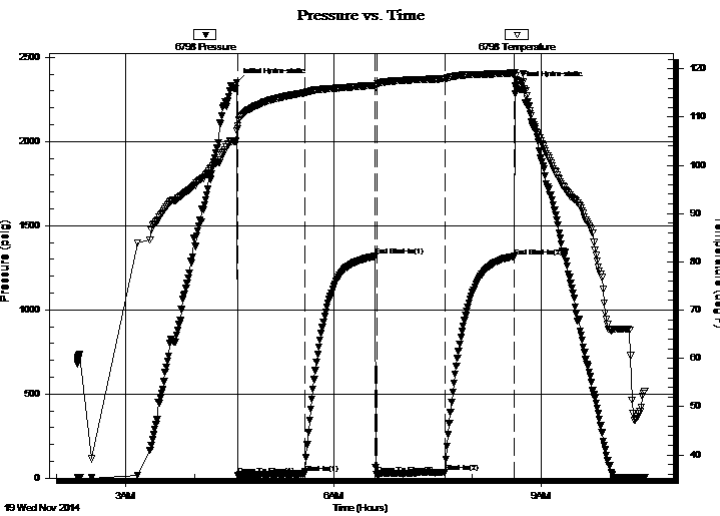
**5-28S-18W Kiowa**  
**Heft B 2**  
 Job Ticket: 59887      **DST#: 3**  
 Test Start: 2014.11.19 @ 02:18:35

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 04:37:05  
 Tester: Leal Cason  
 Time Test Ended: 10:30:05  
 Unit No: 74  
 Interval: **4786.00 ft (KB) To 4804.00 ft (KB) (TVD)**  
 Reference Elevations: 2226.00 ft (KB)  
 Total Depth: 4804.00 ft (KB) (TVD)  
 2216.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 10.00 ft

**Serial #: 6798**      **Inside**  
 Press@RunDepth: 33.53 psig @ 4787.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.11.19      End Date: 2014.11.19      Last Calib.: 2014.11.19  
 Start Time: 02:18:36      End Time: 10:30:05      Time On Btm: 2014.11.19 @ 04:36:20  
 Time Off Btm: 2014.11.19 @ 08:37:35

**TEST COMMENT:** IF: Strong Blow , BOB in 4 minutes  
 IS: 7 inch Blow Back  
 FF: Strong Blow , BOB in 10 seconds, GTS in 1 minute, Gauged & Caught Sample  
 FS: 5 inch Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2349.80	107.21	Initial Hydro-static
1	17.29	107.64	Open To Flow (1)
59	27.39	115.03	Shut-In(1)
120	1317.86	116.59	End Shut-In(1)
121	22.90	116.55	Open To Flow (2)
180	33.53	117.94	Shut-In(2)
241	1316.88	119.13	End Shut-In(2)
242	2329.41	118.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
40.00	SGCM 5%G 95%M	0.56

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	10.00	38.71
Last Gas Rate	0.25	12.00	41.88
Max. Gas Rate	0.25	12.00	41.88



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59887

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2014.11.19 @ 02:18:35

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
40.00	SGCM 5%G 95%M	0.561

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59887

**DST#: 3**

ATTN: Jeff Christian

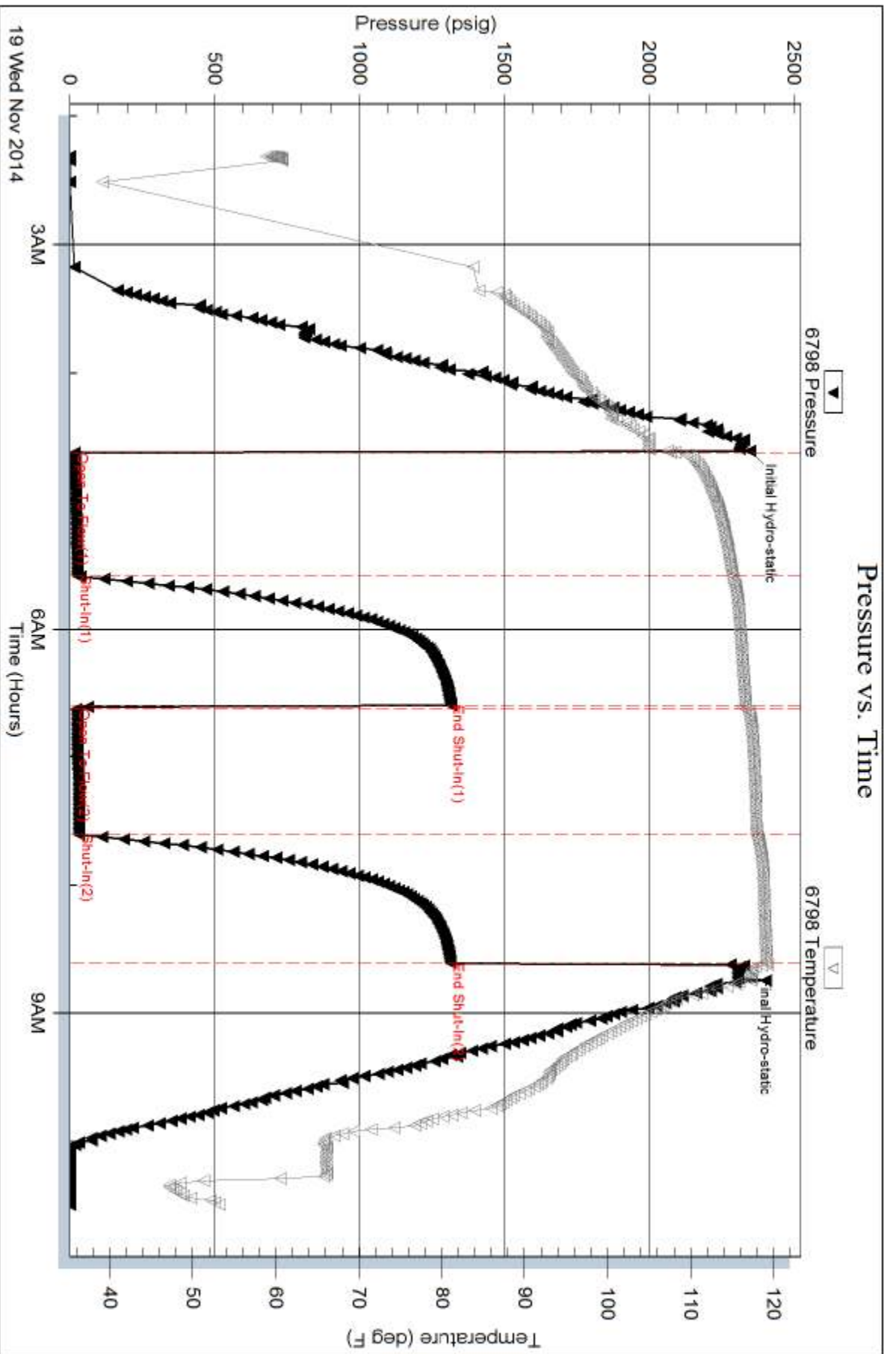
Test Start: 2014.11.19 @ 02:18:35

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	10.00	38.71
2	20	0.25	10.00	38.71
2	30	0.25	10.00	38.71
2	40	0.25	12.00	41.88
2	50	0.25	12.00	41.88
2	60	0.25	12.00	41.88





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59888

**DST#: 4**

ATTN: Jeff Christian

Test Start: 2014.11.19 @ 18:54:40

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:40

Time Test Ended: 03:25:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 4804.00 ft (KB) To 4820.00 ft (KB) (TVD)**

Reference Elevations: 2226.00 ft (KB)

Total Depth: 4820.00 ft (KB) (TVD)

2216.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 6798**

**Inside**

Press@RunDepth: 40.73 psig @ 4805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.19

End Date: 2014.11.20

Last Calib.: 2014.11.20

Start Time: 18:54:41

End Time: 03:25:10

Time On Btm: 2014.11.19 @ 21:24:25

Time Off Btm: 2014.11.20 @ 01:33:55

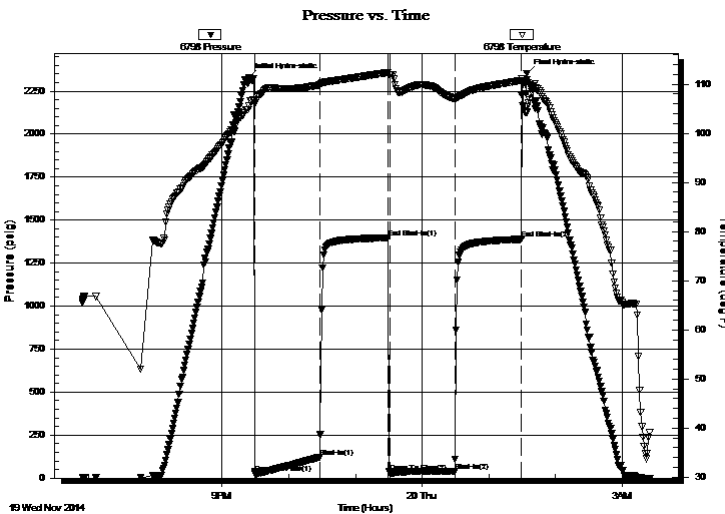
**TEST COMMENT:** IF: Strong Blow , BOB in 20 seconds, GTS in 23 minutes, Guaged & Caught Sample

IS: 1/2 inch Blow Back

FF: Strong Blow , BOB & GTS Immediate, Guagr d Gas

FS: 1 inch Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.76	105.51	Initial Hydro-static
6	26.88	106.09	Open To Flow (1)
64	122.48	109.83	Shut-In(1)
125	1397.72	112.39	End Shut-In(1)
127	31.98	112.00	Open To Flow (2)
185	40.73	107.02	Shut-In(2)
245	1389.23	110.77	End Shut-In(2)
250	2353.51	104.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
20.00	GCM 5%G 95%M	0.28

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	49.00	100.58
Last Gas Rate	0.38	18.00	118.69
Max. Gas Rate	0.25	96.00	175.14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59888

**DST#: 4**

ATTN: Jeff Christian

Test Start: 2014.11.19 @ 18:54:40

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
20.00	GCM 5%G 95%M	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 59888

**DST#: 4**

ATTN: Jeff Christian

Test Start: 2014.11.19 @ 18:54:40

## Gas Rates Information

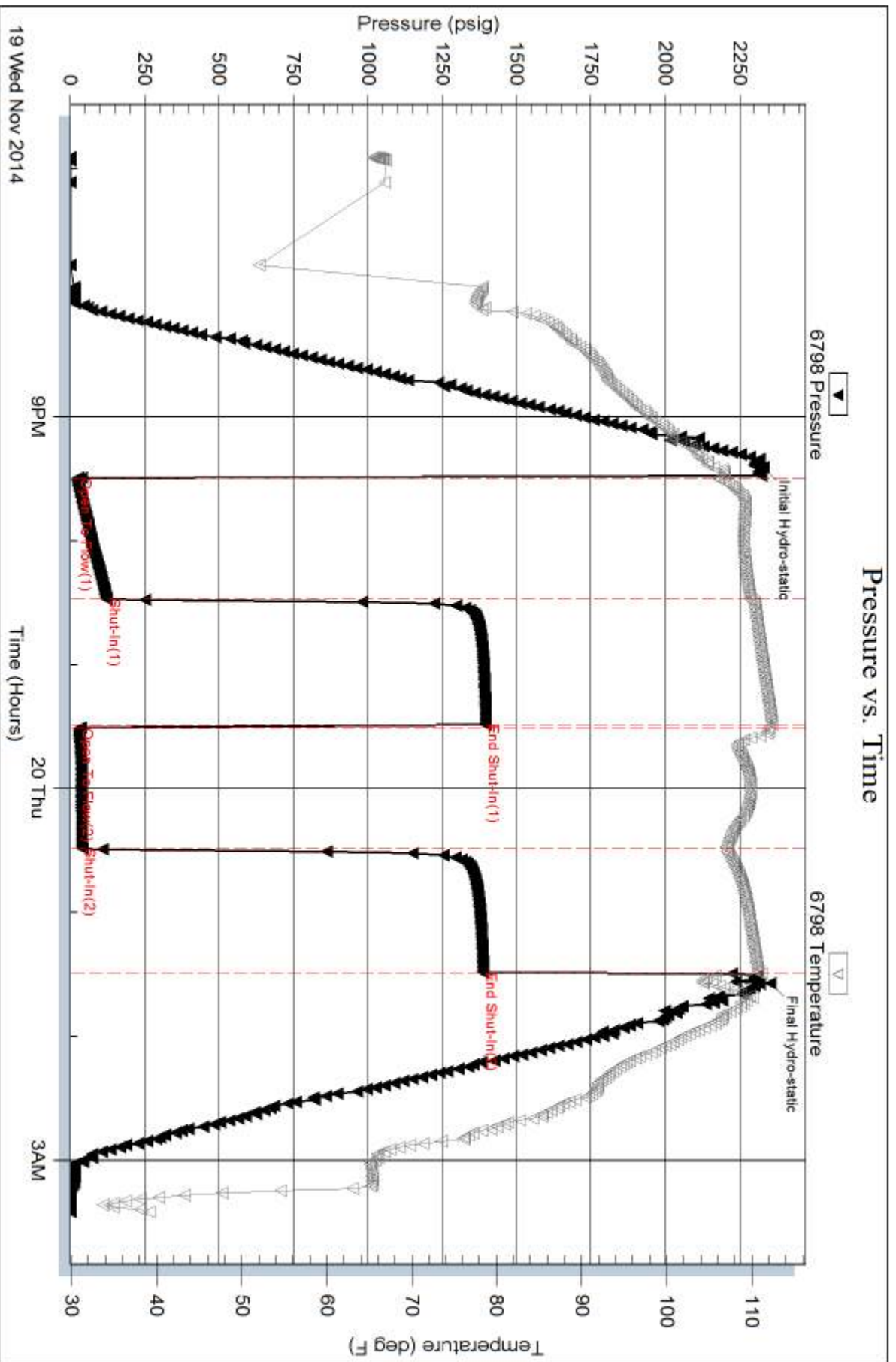
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	30	0.25	49.00	100.58
1	30	0.25	49.00	100.58
1	40	0.25	68.00	130.72
1	50	0.25	84.00	156.10
1	60	0.25	96.00	175.14
2	10	0.38	15.00	107.70
2	20	0.38	17.00	115.03
2	30	0.38	18.00	118.69
2	40	0.38	18.00	118.69
2	50	0.38	18.00	118.69



### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TGT Petroleum Corporation  
7570 W 21st St N Ste 1010D  
Wichita, KS 67205  
ATTN: Jeff Christian

**5-28S-18W Kiowa**  
**Heft B 2**  
Job Ticket: 57797      **DST#: 5**  
Test Start: 2014.11.21 @ 13:57:40

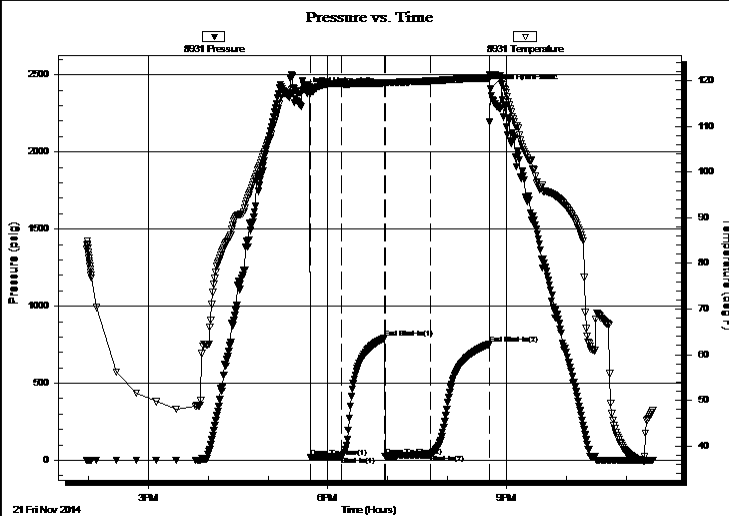
## GENERAL INFORMATION:

Formation: **Kinderhook**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 17:42:55  
Time Test Ended: 23:27:25  
**Interval: 4822.00 ft (KB) To 4858.00 ft (KB) (TVD)**  
Total Depth: 4970.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Matt Smith  
Unit No: 53  
Reference Elevations: 2226.00 ft (KB)  
2216.00 ft (CF)  
KB to GR/CF: 10.00 ft

## Serial #: 8931

Press @ Run Depth: 36.94 psig @                      ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.11.21      End Date: 2014.11.21      Last Calib.: 2014.11.21  
Start Time: 13:57:45      End Time: 23:27:25      Time On Btm: 2014.11.21 @ 17:38:40  
Time Off Btm: 2014.11.21 @ 20:43:40

TEST COMMENT: IF: Weak blow . Surf., - 1".  
IS: No blow .  
FF: Weak blow . Surf., - 1".  
FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.14	118.17	Initial Hydro-static
5	17.93	117.69	Open To Flow (1)
35	24.62	119.37	Shut-In(1)
78	791.28	119.58	End Shut-In(1)
79	27.13	119.43	Open To Flow (2)
125	36.94	119.98	Shut-In(2)
184	752.95	120.64	End Shut-In(2)
185	2408.36	121.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GCM 1%g 99%m (trc oil)	0.28

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TGT Petroleum Corporation

**5-28S-18W Kiowa**

7570 W 21st St N Ste 1010D  
Wichita, KS 67205

**Heft B 2**

Job Ticket: 57797

**DST#: 5**

ATTN: Jeff Christian

Test Start: 2014.11.21 @ 13:57:40

### 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:

6500 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GCM 1%g 99%m (trc oil)	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

