

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	C G Oil, Inc.
Well Name	WALKER LEASE #1
Doc ID	1322457

All Electric Logs Run

Micro Log
Dual Induction Log
Compensated Density/Neutron Log
Sonic Bond Log



# QUALITY OILWELL CEMENTING, INC.

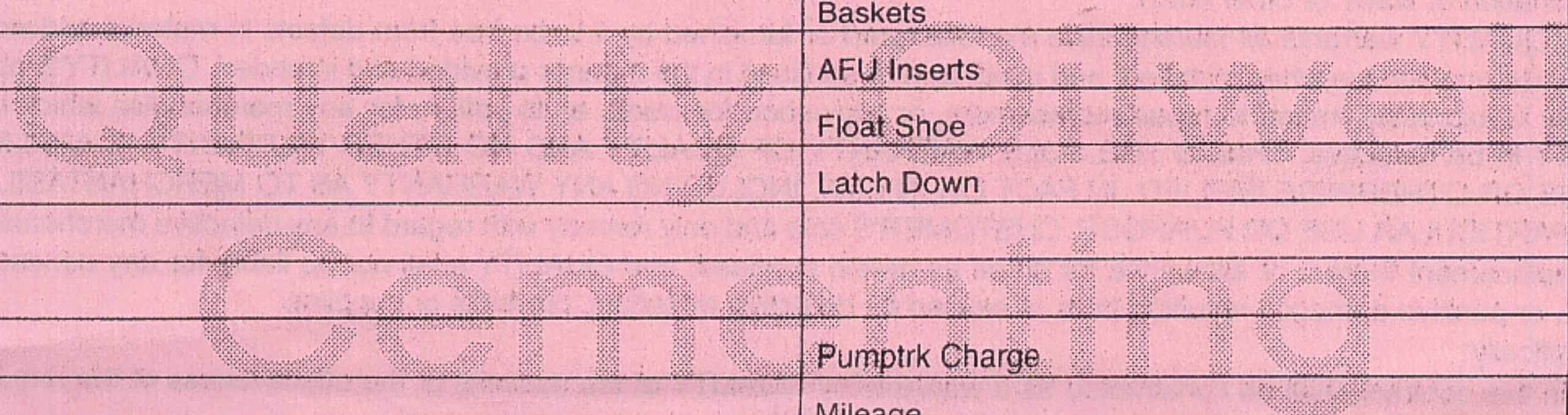
Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1759

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-27-16	34	13	16	Ellis	KS		12:50pm
Lease				Well No.		Owner	
Walker lease				1		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor				Type Job		Charge To	
Sullivan #3				Surface		OG	
Hole Size		T.D.		Depth		Street	
12 1/4		1054		1053			
Csg.		Tbg. Size		Depth		City State	
8 5/8							
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered			
40'		40'		4/2560/40 3/11 2/651			
Meas Line		Displace					
		64' 1231					
<b>EQUIPMENT</b>				<b>Common</b>			
Pumptrk	No.	Cementer		Poz. Mix			
18		Helper					
Bulktrk	No.	Driver		Gel.			
		Driver					
Bulktrk	No.	Driver		Calcium			
		Driver					
<b>JOB SERVICES &amp; REMARKS</b>				<b>Hulls</b>			
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
8 5/8 on bottom for circulation				Handling			
Mud 4250K 2000 lbs				Mileage			
Cement Circulation				<b>FLOAT EQUIPMENT</b>			
				Guide Shoe 8 5/8 Rubber Plug			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
X Signature				Total Charge			
Joy							



# OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3003

Date	9-1-16	Sec.	34	Twp.	13	Range	16	County	Ellis	State	KS	On Location	Finish
Location													10:30 PM

Lease	Walker Lease	Well No.	1	Owner	Walker, KS - 9/10th N, w/into
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Contractor	Southwind #3	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
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Type Job	Production	Charge To	C+G oil
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Hole Size	7 7/8"	T.D.	3510'	Street	City	State
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Csg.	5 1/2" New 15.50	Depth	35 @ 4 60'	The above was done to satisfaction and supervision of owner agent or contractor.		
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Tbg. Size	Depth	City	State	Cement Amount Ordered	200 Com 10% Salt
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Tool	Depth	Cement Left in Csg.	42.88'	Shoe Joint	42.88'	Cement Amount Ordered	200 Com 10% Salt
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Meas Line	Displace	82 1/4 BLS	500 gal mud Clear 48	<b>EQUIPMENT</b>			
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Pumptrk	18	No.	Cementer	Helper	Nick	Poz. Mix
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Bulktrk	14	No.	Driver	Driver	Doug	Gel.
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Bulktrk	74	No.	Driver	Driver	Rick	Calcium
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<b>JOB SERVICES &amp; REMARKS</b>							Common
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Remarks:	Hulls
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Rat Hole	Salt
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Mouse Hole	Flowseal
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Centralizers	Kol-Seal
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Baskets	Mud CLR 48
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D/V or Port Collar	CFL-117 or CD110 CAF 38
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mud clear 48 plug bath	Sand
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SK H&K to 100'	Handling
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Cement 500 gal	Mileage
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+ lines Released plug & Displace w/ 82 1/4 BLS of water. Released + hold	<b>FLOAT EQUIPMENT</b>
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1.501 pressure 600 #	Guide Shoe
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Lead plug to 1200 #	Centralizer
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1.501 pressure 600 #	Baskets
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1.501 pressure 600 #	AFU Inserts
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1.501 pressure 600 #	Float Shoe
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1.501 pressure 600 #	Latch Down
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1.501 pressure 600 #	Pumptrk Charge
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1.501 pressure 600 #	Mileage
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## DRILL STEM TEST REPORT

Prepared For: **C G Oil Inc**

PO Box 207  
Victoria KS 67601

ATTN: Ron Schmidtberger

### **Walker Lease #1**

### **34-13s-18w Ellis,KS**

Start Date: 2016.08.30 @ 10:05:27

End Date: 2016.08.30 @ 16:11:36

Job Ticket #: 63068                      DST #: 1

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

Printed: 2016.09.01 @ 09:00:28

C G Oil Inc 34-13s-18w Ellis,KS Walker Lease #1 DST # 1 Toronto - LKC "B" 2016.08.30



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

CG Oil Inc  
 PO Box 207  
 Victoria KS 67601  
 ATTN: Ron Schmidtberger

**34-13s-18w Ellis,KS**  
**Walker Lease #1**  
 Job Ticket: 63068 **DST#: 1**  
 Test Start: 2016.08.30 @ 10:05:27

**GENERAL INFORMATION:**

Formation: **Toronto - LKC "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:38:52  
 Time Test Ended: 16:11:36

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 77

Interval: **3145.00 ft (KB) To 3228.00 ft (KB) (TVD)**  
 Total Depth: 3228.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1960.00 ft (KB)  
 1952.00 ft (CF)  
 KB to GR/CF: 8.00 ft

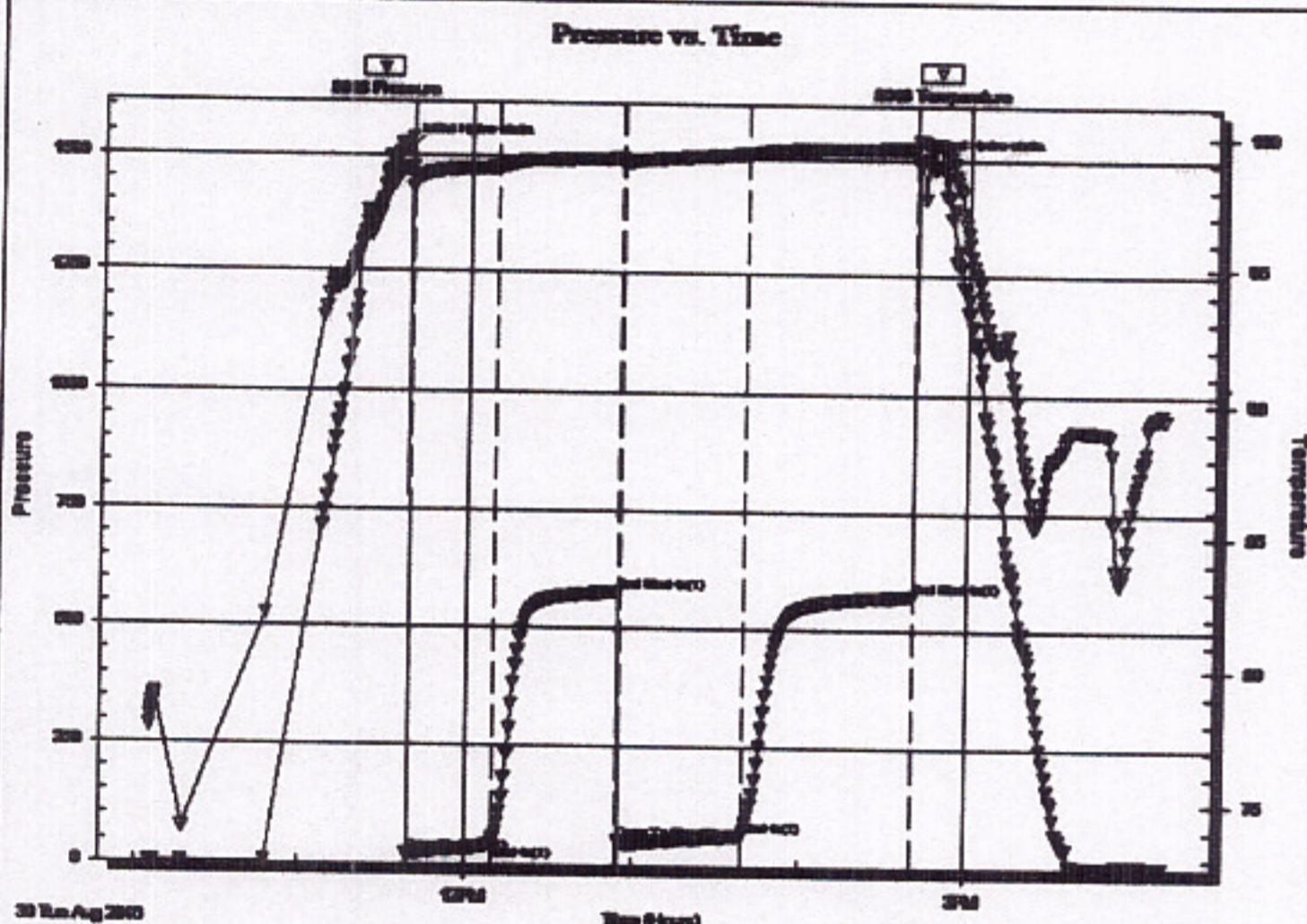
**Serial #: 8018**

Inside

Press@RunDepth: 64.52 psig @ 3147.00 ft (KB)  
 Start Date: 2016.08.30 End Date: 2016.08.30  
 Start Time: 10:05:27 End Time: 16:11:36

Capacity: 8000.00 psig  
 Last Calib.: 2016.08.30  
 Time On Btm: 2016.08.30 @ 11:37:07  
 Time Off Btm: 2016.08.30 @ 14:42:36

TEST COMMENT: 30-IFP-w k to strg in 23 min  
 45-ISIP-surface bl bk  
 45-FFP-w k to strg in 15 min  
 60-FSIP-surface bl bk



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.20	98.62	Initial Hydro-static
2	20.44	97.92	Open To Flow (1)
32	42.74	98.70	Shut-In(1)
77	578.63	99.09	End Shut-In(1)
78	50.97	98.92	Open To Flow (2)
122	64.52	99.30	Shut-In(2)
184	574.02	99.58	End Shut-In(2)
186	1492.75	99.84	Final Hydro-static

**Recovery**

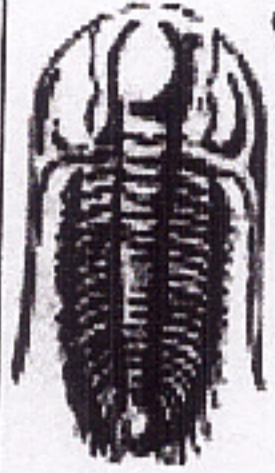
Length (ft)	Description	Volume (bbl)
0.00	330'GIP	0.00
40.00	HO&GCM 5%G20%O75%M	0.56
60.00	O&GCWM 10%G10%O10%W70%M	0.84

**Gas Rates**

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

C G Oil Inc  
PO Box 207  
Victoria KS 67601  
ATTN: Ron Schmidtberger

**34-13s-18w Ellis,KS**  
**Walker Lease #1**  
Job Ticket: 63068      **DST#: 1**  
Test Start: 2016.08.30 @ 10:05:27

## 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:	53000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

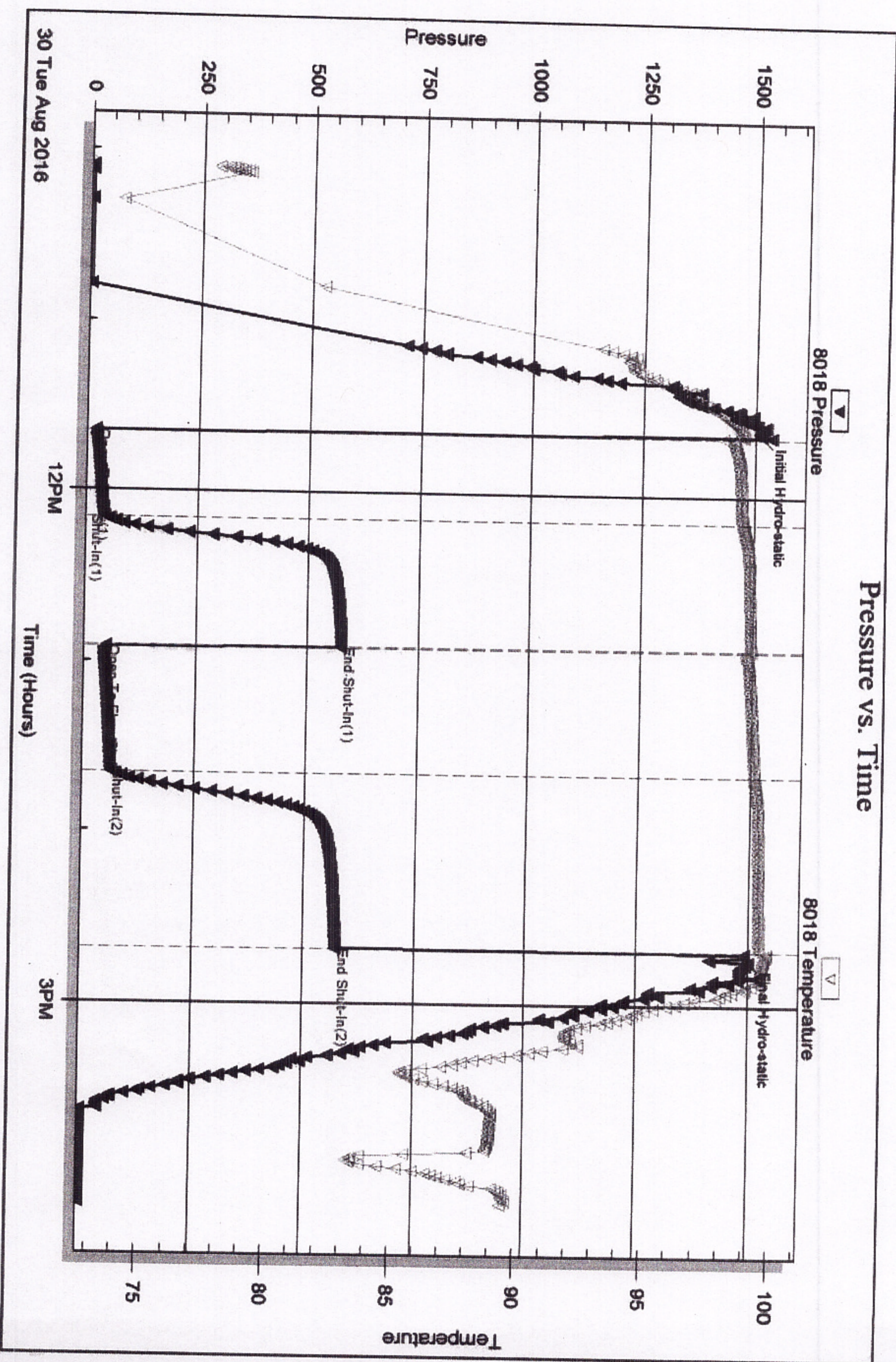
Length ft	Description	Volume bbl
0.00	330'GIP	0.000
40.00	HO&GCM 5%G20%O75%M	0.561
60.00	O&GCWM 10%G10%O10%W70%M	0.842

Total Length: 100.00 ft      Total Volume: 1.403 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW .14 @ 70F

Serial #: 8018 Inside CG Oil Inc

Walker Lease #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63066

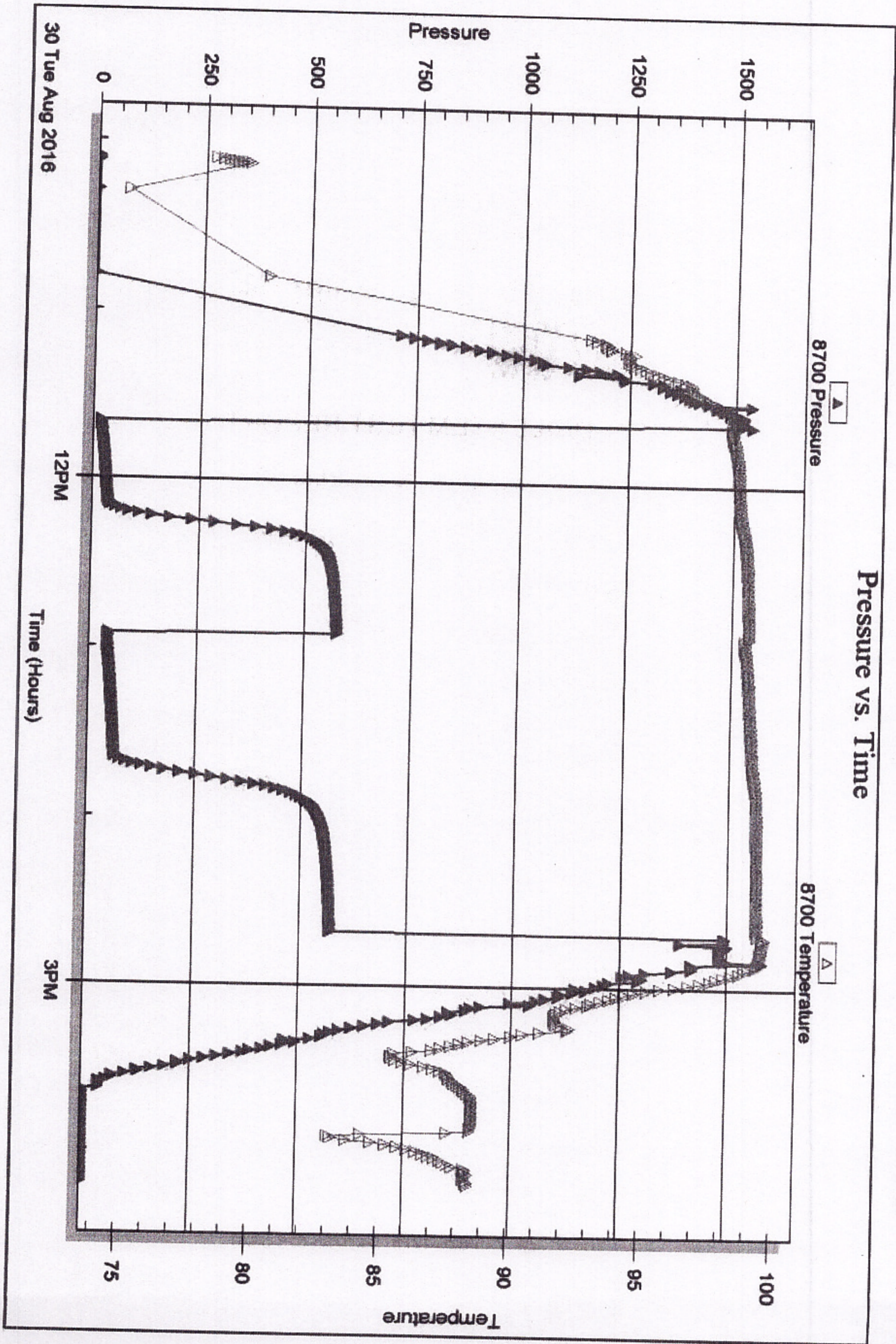
Printed: 2016.09.01 @ 09:00:30

Serial #: 8700

Outside C G Oil Inc

Walker Lease #1

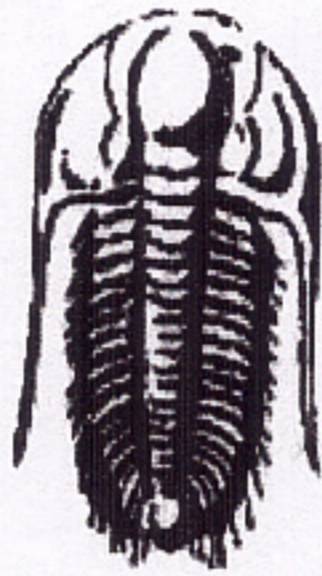
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63068

Printed: 2016.09.01 @ 09:00:30



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **C G Oil Inc**

PO Box 207  
Victoria KS 67601

ATTN: Ron Schmidtberger

**Walker Lease #1**

**34-13s-18w Ellis,KS**

Start Date: 2016.08.31 @ 00:30:21

End Date: 2016.08.31 @ 05:26:15

Job Ticket #: 63069                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.01 @ 08:59:50

C G Oil Inc

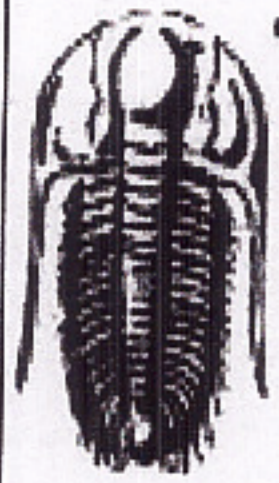
34-13s-18w Ellis,KS

Walker Lease #1

DST # 2

LKC "E"

2016.08.31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

C G Oil Inc  
PO Box 207  
Victoria KS 67601  
ATTN: Ron Schmidtberger

**34-13s-18w Ellis,KS**  
**Walker Lease #1**  
Job Ticket: 63069 **DST#: 2**  
Test Start: 2016.08.31 @ 00:30:21

## GENERAL INFORMATION:

Formation: **LKC "E"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:50:16  
Time Test Ended: 05:26:15  
Interval: **3232.00 ft (KB) To 3287.00 ft (KB) (TVD)**  
Total Depth: 3287.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 77  
Reference Elevations: 1960.00 ft (KB)  
1952.00 ft (CF)  
KB to GR/CF: 8.00 ft

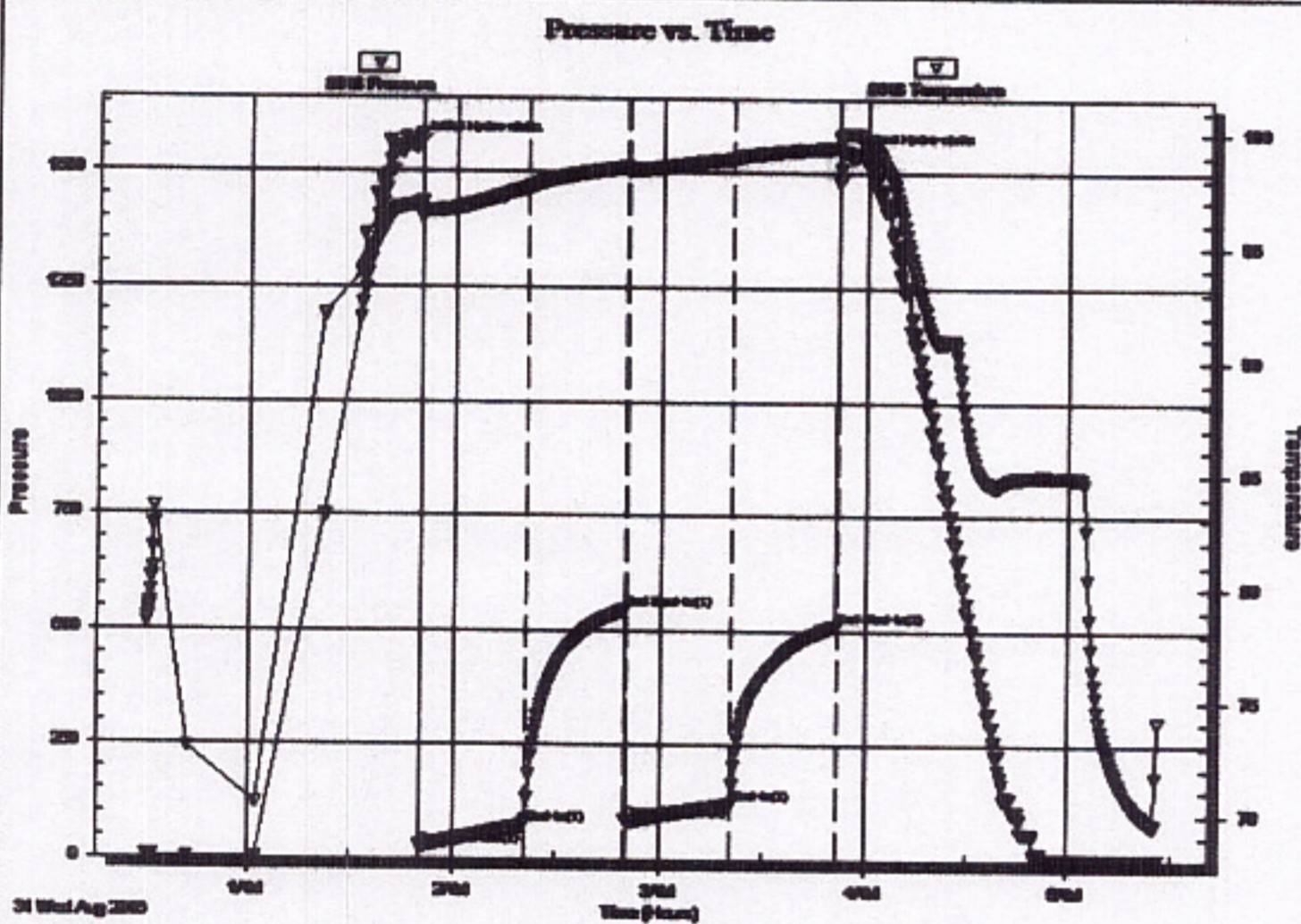
## Serial #: 8018

Inside

Press@RunDepth: 119.21 psig @ 3234.00 ft (KB)  
Start Date: 2016.08.31 End Date: 2016.08.31  
Start Time: 00:30:21 End Time: 05:26:15

Capacity: 8000.00 psig  
Last Calib.: 2016.08.31  
Time On Btm: 2016.08.31 @ 01:48:31  
Time Off Btm: 2016.08.31 @ 03:55:46

TEST COMMENT: 30-IFP-w k to strg in 8 min  
30-ISIP-w k bl bk surface to 2" bl  
30-FFP-w k to strg in 5 min  
30-FSIP-surface to 4" bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1552.13	96.80	Initial Hydro-static
2	28.05	96.26	Open To Flow (1)
33	72.84	97.56	Shut-In(1)
62	547.42	98.49	End Shut-In(1)
62	86.27	98.30	Open To Flow (2)
92	119.21	98.89	Shut-In(2)
124	514.23	99.40	End Shut-In(2)
128	1531.77	100.03	Final Hydro-static

## Recovery

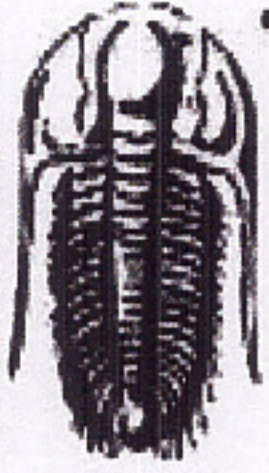
Length (ft)	Description	Volume (bbl)
0.00	520'GIP	0.00
20.00	CO	0.28
70.00	MGO 10%G10%w 10%M70%O	0.98
62.00	O&GCWM 20%G6%O34%W40%M	0.87
62.00	MW 10%M90%W	0.87

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

C G Oil Inc  
PO Box 207  
Victoria KS 67601  
ATTN: Ron Schmidtberger

**34-13s-18w Ellis,KS**  
**Walker Lease #1**  
Job Ticket: 63069      **DST#: 2**  
Test Start: 2016.08.31 @ 00:30:21

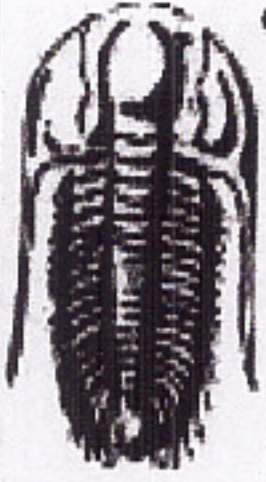
**Tool Information**

Drill Pipe:	Length: 3225.00 ft	Diameter: 3.80 inches	Volume: 45.24 bbl	Tool Weight: 2200.00 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: 45000.00 lb
			<b>Total Volume: 45.24 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3232.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3212.00	
Shut In Tool	5.00			3217.00	
Hydraulic tool	5.00			3222.00	
Packer	5.00			3227.00	21.00      Bottom Of Top Packer
Packer	5.00			3232.00	
Stubb	1.00			3233.00	
Perforations	1.00			3234.00	
Recorder	0.00	8018	Inside	3234.00	
Recorder	0.00	8700	Outside	3234.00	
Blank Spacing	33.00			3267.00	
Perforations	17.00			3284.00	
Bullnose	3.00			3287.00	55.00      Bottom Packers & Anchor

**Total Tool Length: 76.00**





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

C G Oil Inc

**34-13s-18w Ellis,KS**

PO Box 207  
Victoria KS 67601

**Walker Lease #1**

Job Ticket: 63069

**DST#: 2**

ATTN: Ron Schmidtberger

Test Start: 2016.08.31 @ 00:30:21

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 6.77 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3800.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 30 deg API  
Water Salinity: 88000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	520'GIP	0.000
20.00	CO	0.281
70.00	MGO 10%G10%w 10%M70%O	0.982
62.00	O&GCWM 20%G6%O34%W40%M	0.870
62.00	MW 10%M90%W	0.870

Total Length: 214.00 ft      Total Volume: 3.003 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .09@68F

Serial #: 8018

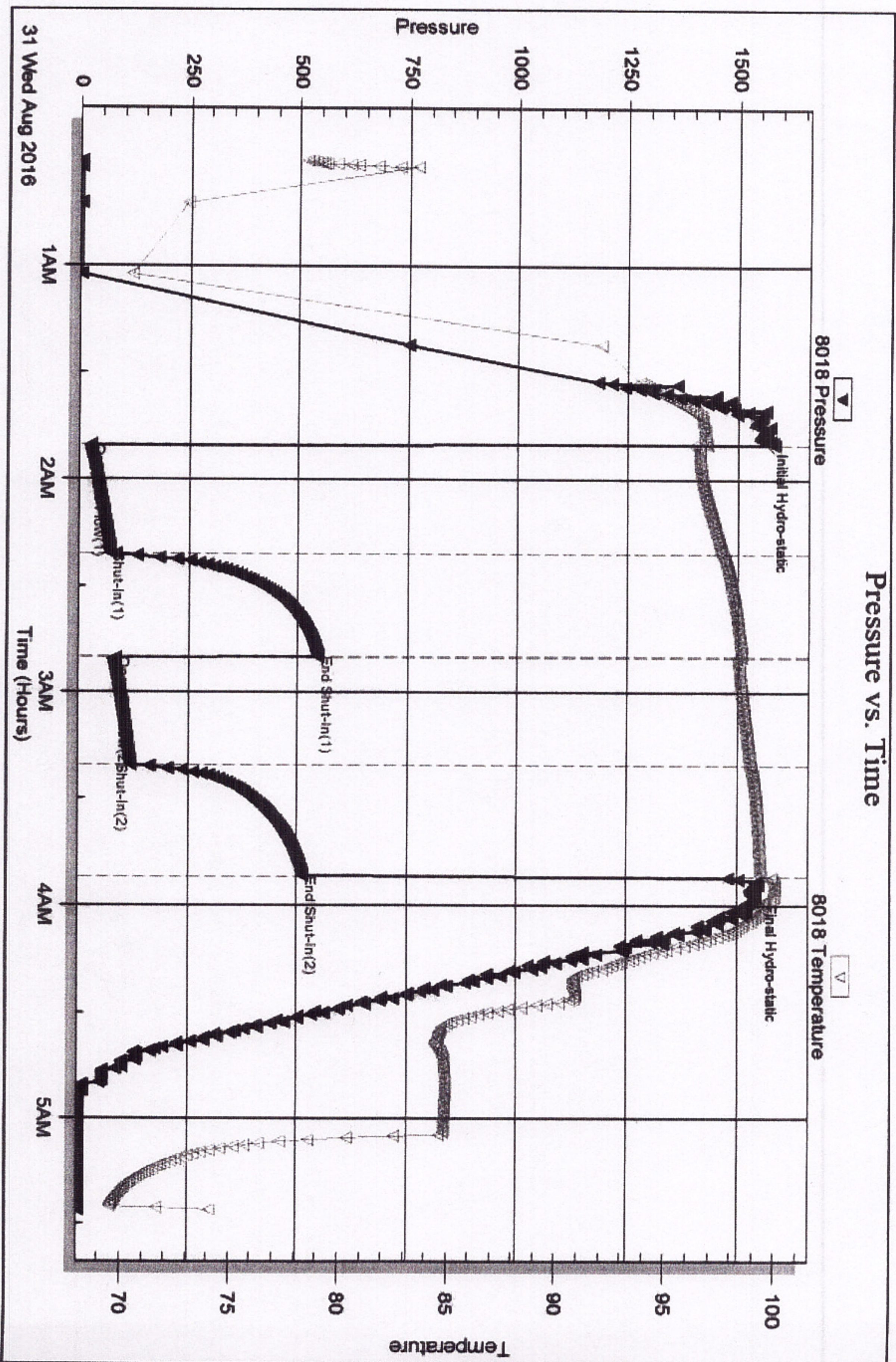
Inside

C G Oil Inc

Walker Lease #1

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63069

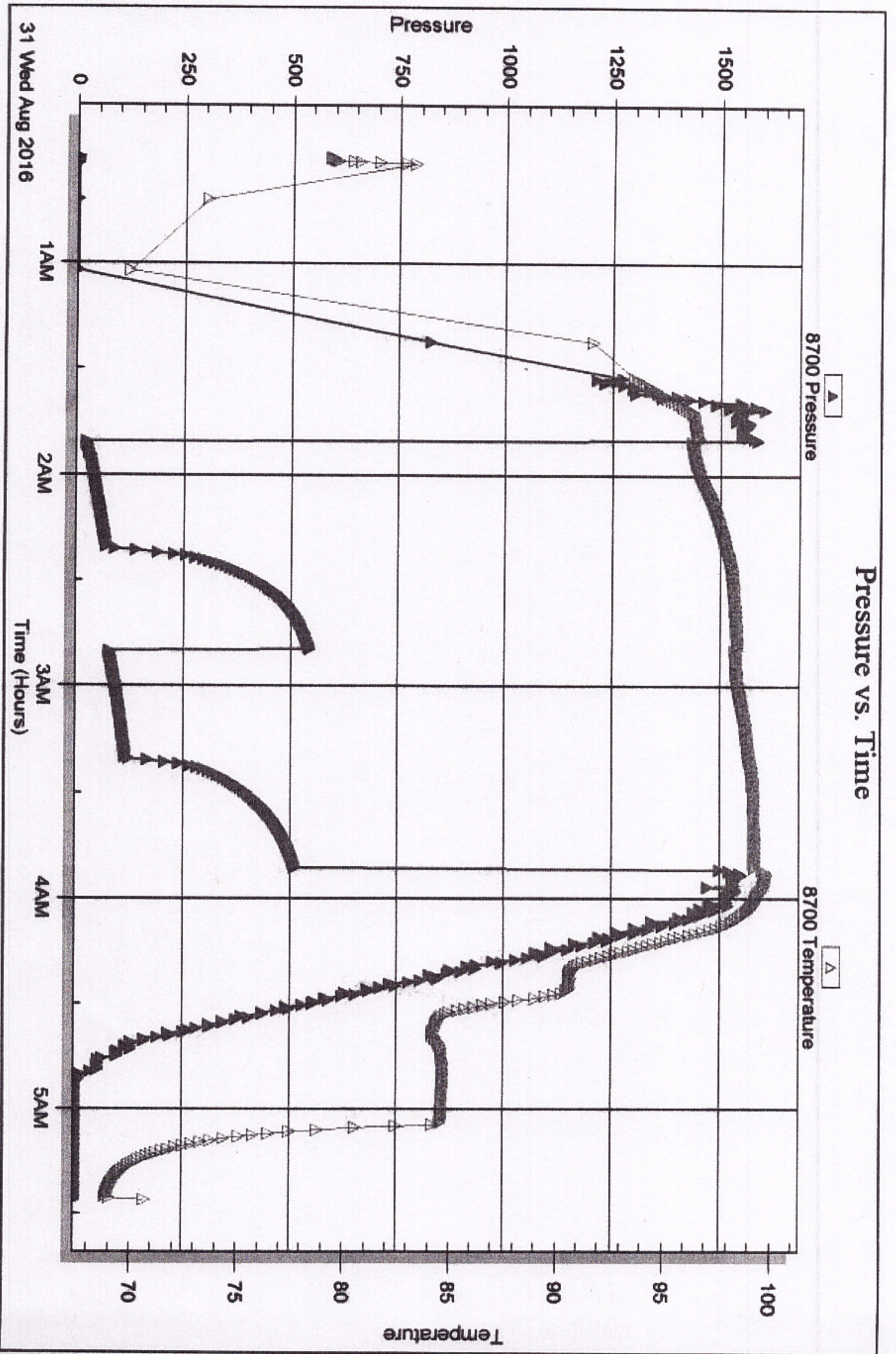
Printed: 2016.09.01 @ 08:59:51

Serial #: 8700

Outside C G Oil Inc

Walker Lease #1

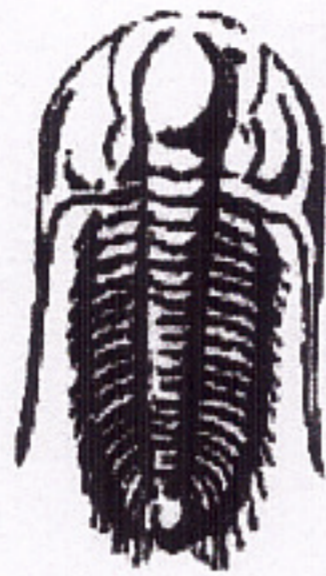
DST Test Number: 2



Tridoble Testing, Inc

Ref. No: 63069

Printed: 2016.09.01 @ 08:59:51



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **C G Oil Inc**

PO Box 207  
Victoria KS 67601

ATTN: Ron Schmidtberger

**Walker Lease #1**

**34-13s-18w Ellis,KS**

Start Date: 2016.08.31 @ 20:10:57

End Date: 2016.08.31 @ 23:41:22

Job Ticket #: 63070                      DST #: 3

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

Printed: 2016.09.01 @ 08:54:30



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

C G Oil Inc  
 PO Box 207  
 Victoria KS 67601  
 ATTN: Ron Schmidtberger

**34-13s-18w Ellis,KS**  
**Walker Lease #1**  
 Job Ticket: 63070      **DST#: 3**  
 Test Start: 2016.08.31 @ 20:10:57

**GENERAL INFORMATION:**

Formation: **Congl Sd**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 21:33:22  
 Time Test Ended: 23:41:22

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77

Interval: **3428.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
 Total Depth: 3470.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1960.00 ft (KB)  
 1952.00 ft (CF)  
 KB to GR/CF: 8.00 ft

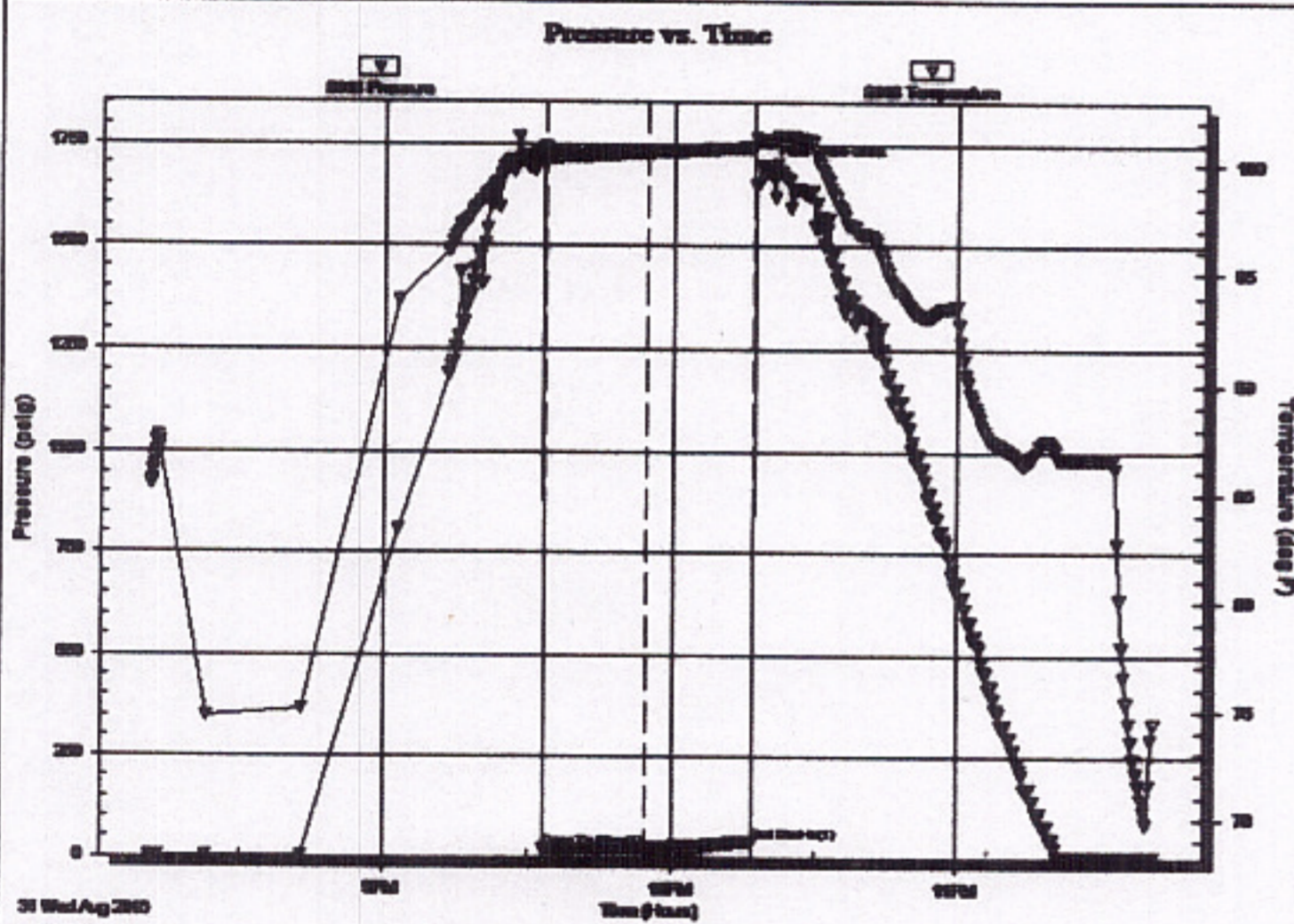
**Serial #: 8018**

Inside

Press@RunDepth: 22.51 psig @ 3434.00 ft (KB)  
 Start Date: 2016.08.31      End Date: 2016.08.31  
 Start Time: 20:10:57      End Time: 23:41:22

Capacity: 8000.00 psig  
 Last Calib.: 2016.08.31  
 Time On Btm: 2016.08.31 @ 21:30:52  
 Time Off Btm: 2016.08.31 @ 22:19:22

TEST COMMENT: 20-IFP-surface bl died in 18 min  
 20-ISIP-no bl  
 pulled tool



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.86	100.45	Initial Hydro-static
3	21.84	99.93	Open To Flow (1)
24	22.51	100.57	Shut-In(1)
46	39.93	100.83	End Shut-In(1)
49	1683.92	101.13	Final Hydro-static

**Recovery**

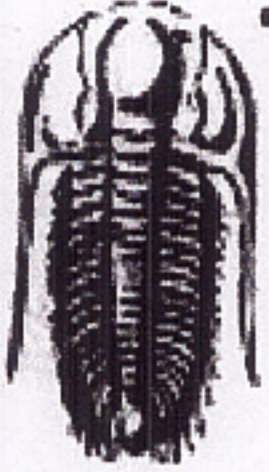
Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

C G Oil Inc  
PO Box 207  
Victoria KS 67601  
ATTN: Ron Schmidtberger

**34-13s-18w Ellis,KS**  
**Walker Lease #1**  
Job Ticket: 63070      **DST#: 3**  
Test Start: 2016.08.31 @ 20:10:57

**Mud and Cushion Information**

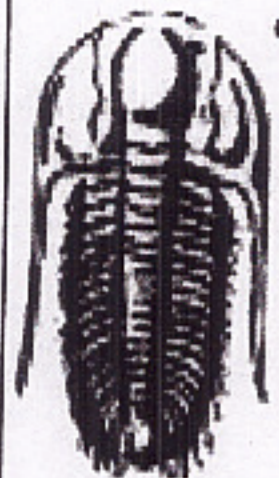
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

C G Oil Inc  
PO Box 207  
Victoria KS 67601

**34-13s-18w Ellis,KS**

**Walker Lease #1**

Job Ticket: 63070

**DST#: 3**

ATTN: Ron Schmidtberger

Test Start: 2016.08.31 @ 20:10:57

**Tool Information**

Drill Pipe:	Length: 3417.00 ft	Diameter: 3.80 inches	Volume: 47.93 bbl	Tool Weight: 2200.00 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: 40000.00 lb
			<b>Total Volume: 47.93 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3428.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3408.00	
Shut In Tool	5.00			3413.00	
Hydraulic tool	5.00			3418.00	
Packer	5.00			3423.00	21.00 Bottom Of Top Packer
Packer	5.00			3428.00	
Stubb	1.00			3429.00	
Perforations	5.00			3434.00	
Recorder	0.00	8018	Inside	3434.00	
Recorder	0.00	8700	Outside	3434.00	
Blank Spacing	33.00			3467.00	
Bullnose	3.00			3470.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**

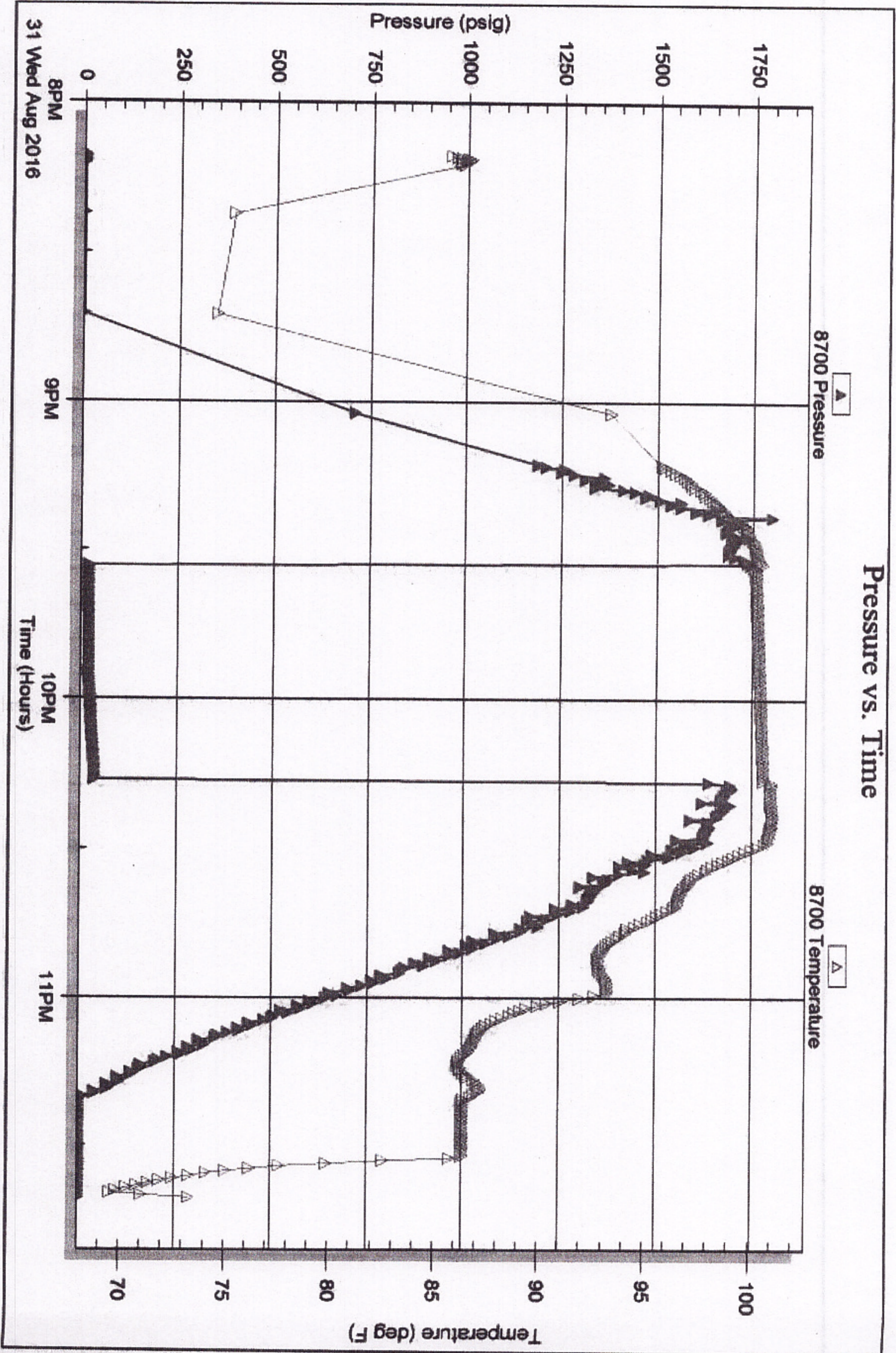


Serial #: 8700

Outside C G Oil Inc

Walker Lease #1

DST Test Number: 3



Tribolite Testing, Inc

Ref. No: 63070

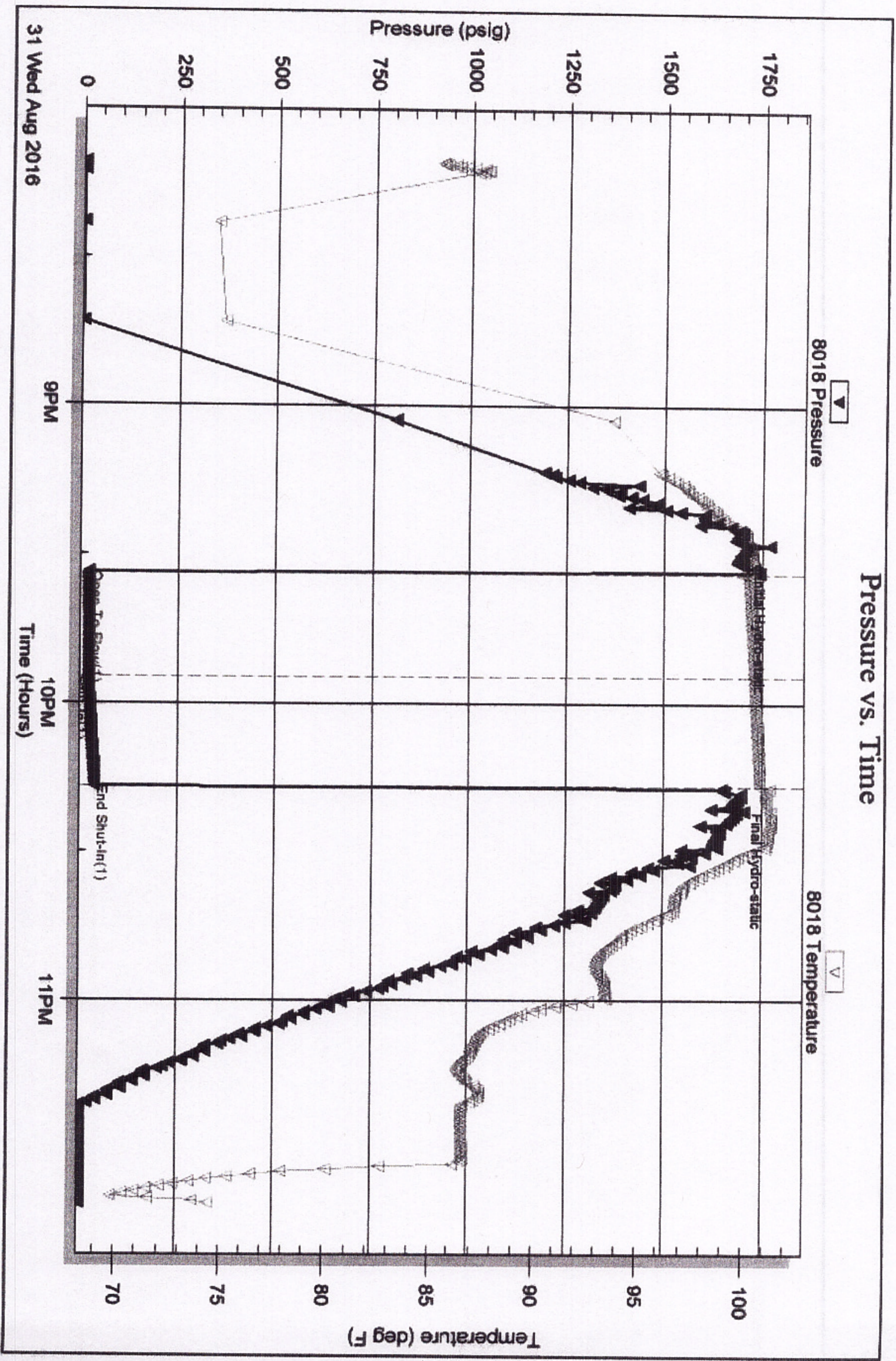
Printed: 2016.09.01 @ 08:54:32

Serial #: 8018

Inside CG Oil Inc

Walker Lease #1

DST Test Number: 3



Tribotek Testing, Inc

Ref. No: 63070

Printed: 2016.09.01 @ 08:54:31



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63068

Well Name & No. Walker Lease #1 Test No. 1 Date 8-30-16  
 Company CG OIL, Inc Elevation 1960 KB 1952 GL  
 Address 2550 Airbase Rd. PO Box 207 Victoria, Ks 67601  
 Co. Rep / Geo. Roger Fisher Rig Southward rig 3  
 Location: Sec. 34 Twp. 13<sup>s</sup> Rge. 18<sup>w</sup> Co. Ellis State Ks

Interval Tested 3145-3228 Zone Tested TORONTO-LKCB  
 Anchor Length 83 Drill Pipe Run 3135 Mud Wt. 8.9  
 Top Packer Depth 3140 Drill Collars Run - Vis 61  
 Bottom Packer Depth 3145 Wt. Pipe Run - WL 6.8  
 Total Depth 3228 Chlorides 3800 ppm System LCM 2#

Blow Description I FP - WEAK TO STRONG IN 23 MIN  
ISIP - SURFACE BLOW BACK  
FFP - WEAK TO STRONG IN 15 MIN  
FSIP - SURFACE BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>330</u>	<u>GIP</u>				
<u>40</u>	<u>HD+GCM</u>	<u>5</u>	<u>20</u>	<u>75</u>	<u>0</u>
<u>60</u>	<u>D+GCWM</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>70</u>

Rec Total 100 BHT 99 Gravity - API RW .14 @ 70 ° F Chlorides 53000 ppm

(A) Initial Hydrostatic 1510  Test 1050 T-On Location 0825  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 1005  
 (C) First Final Flow 42  Safety Joint \_\_\_\_\_ T-Open 1135  
 (D) Initial Shut-In 578  Circ Sub \_\_\_\_\_ T-Pulled 1435  
 (E) Second Initial Flow 50  Hourly Standby \_\_\_\_\_ T-Out 1611  
 (F) Second Final Flow 64  Mileage 27 RT 20.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 574  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1492  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1070.25  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60

Sub Total 1070.25

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *THANK YOU*

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63069

Well Name & No. WALKER Lease #1 Test No. 2 Date 8-30-16  
 Company CG OIL, Inc Elevation 1960 KB 1952 GL  
 Address 2550 Airbase Rd. PO Box 207 Victoria, Mo 67601  
 Co. Rep / Geo. Roger Fisher Rig Southwind rig 3  
 Location: Sec. 34 Twp. 13<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State K

Interval Tested 3232-3287 Zone Tested LKC "E"  
 Anchor Length 55 Drill Pipe Run 015 Mud Wt. 9  
 Top Packer Depth 3227 Drill Collars Run - Vis 54  
 Bottom Packer Depth 3232 Wt. Pipe Run - WL 6.8  
 Total Depth 3287 Chlorides 3800 ppm System LCM 2#

Blow Description IFP - WEAK TO STRONG IN 8 MIN  
ISIP - WEAK BLOW BACK SURFACE TO 2" BLOW  
FFP - WEAK TO STRONG IN 5 MIN  
FSIP - SURFACE TO 4" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>520</u>	<u>GIP</u>				
<u>20</u>	<u>CO</u>				
<u>70</u>	<u>M50</u>	<u>10</u>	<u>70</u>	<u>10</u>	<u>10</u>
<u>62</u>	<u>0+6CWM</u>	<u>20</u>	<u>6</u>	<u>34</u>	<u>40</u>
<u>62</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total 214 BHT 99 Gravity 30 API RW .09 @ 68 °F Chlorides 88000 ppm

(A) Initial Hydrostatic 1552  Test 1050 T-On Location 2340  
 (B) First Initial Flow 28  Jars \_\_\_\_\_ T-Started 0030  
 (C) First Final Flow 72  Safety Joint \_\_\_\_\_ T-Open 0150  
 (D) Initial Shut-In 547  Circ Sub \_\_\_\_\_ T-Pulled 0350  
 (E) Second Initial Flow 86  Hourly Standby \_\_\_\_\_ T-Out 0526  
 (F) Second Final Flow 119  Mileage 27 RT 20.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 514  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1531  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1070.25  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1070.25

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGN *Thank you*

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63070

Well Name & No. WALKER LEASE #1 Test No. 3 Date 8-31-16  
 Company C6 OIL INC Elevation 1960 KB 1952 GL  
 Address 2550 AIRBASE RD PO BOX 207 VICTORIA, KS 67601  
 Co. Rep / Geo. ROGER FISHER Rig SOUTH WIND RIG 3  
 Location: Sec. 34 Twp. 13<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3428-3470 Zone Tested Cond. sd  
 Anchor Length 42 Drill Pipe Run 3417 Mud Wt. 9.1  
 Top Packer Depth 3423 Drill Collars Run - Vis 54  
 Bottom Packer Depth 3428 Wt. Pipe Run - WL 6.4  
 Total Depth 3470 Chlorides 5100 ppm System LCM 2 #

Blow Description I FP - SURFACE BLOW, died in 18 min  
ISIP - NO BLOW  
~~I FP~~  
~~ISIP~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				

Rec Total 2 BHT 101 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1687  Test 1050 T-On Location 1930  
 (B) First Initial Flow 21  Jars - T-Started 2010  
 (C) First Final Flow 22  Safety Joint - T-Open 2130  
 (D) Initial Shut-In 40  Circ Sub - T-Pulled 2210  
 (E) Second Initial Flow -  Hourly Standby - T-Out 2341  
 (F) Second Final Flow -  Mileage 27 RT 20.25 Comments -  
 (G) Final Shut-In -  Sampler -  
 (H) Final Hydrostatic 1683  Straddle -  Ruined Shale Packer -  
 Shale Packer -  Ruined Packer -  
 Extra Packer -  Extra Copies -  
 Extra Recorder - Sub Total 0  
 Day Standby - Total 1070.25  
 Accessibility - MP/DST Disc't -  
 Sub Total 1070.25

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *THANK YOU*

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: C G Oil, Inc  
 LEASE: Walker  
 FIELD: WC  
 LOCATION: SW-SW-NE/4  
 SEC: 34 T13S R06W  
 COUNTY: Ellis STATE: KS  
 CONTRACTOR: Southwind  
 SAID: 8-26-16 COUP: 9-2-16  
 RTD: 3510 LTD: 3508  
 MUD UP: 2850 TYPE MUD: Chem  
 SAMPLES SAVED FROM: 2900 TO RTD  
 DRILLING TIME KEPT FROM: TO RTD  
 SAMPLES PAIRED FROM: 2900 TO RTD  
 GEOLOGICAL SUPERVISION FROM: Roger L. Fisher  
 GEOLOGIST ON WELL: Roger L. Fisher

FORMATION TOPS LOGS SAMPLES

Abhydrate	1047-1911	
Bath	1090-1868	
Topeka	2921-963	
Hb Sh	3145-1187	
Toronto	3161-1203	
Lansing	3189-1231	
Starbush	3430-1492	
BKC	3454-1496	
C&Sd	3510-1552	

ELEVATIONS: KB: 1958, DF: 1950, CI: 1950  
 Measurements Are All From KB  
 SURFACE: 1054 of 85 1/2"  
 PRODUCTION: 3510 of 51 1/2"  
 ELECTRICAL SURVEYS: COL/CNL MEL

REMARKS: Pipe was Run to Further Test  
 B J F L

LEGEND

