

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

OPERATOR: License # 32948
Name: Tomlinson Operating, LLC
Address 1: 7154 W State St. PMB 302
Address 2: _____
City: Boise State: ID Zip: 83714 + 7421
Contact Person: Sid Tomlinson
Phone: (208) 229-1937
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Robert O'Dell
Purchaser: _____

RECEIVED

DEC 08 2010

KCC WICHITA

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	11-09-2010	11-09-2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 051-26047-00-00

Spot Description: _____

W/2 W/2 E/2 Sec. 18 Twp. 12 S. R. 18 East West

2,640 Feet from North / South Line of Section

2,310 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Ellis

Lease Name: Joy Well #: 18-1

Field Name: wildcat

Producing Formation: _____

Elevation: Ground: 2209 Kelly Bushing: 2219

Total Depth: 3900 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 329 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: 36,000 ppm Fluid volume: 400 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 #: _____

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: Sid Tomlinson

Title: Member Date: 12-01-2010

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: PLA Dlg Date: 12/16/10

Operator Name: Tomlinson Operating, LLC Lease Name: Joy Well #: 18-1
 Sec. 18 Twp. 12 S. R. 18 East West County: Ellis

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Log Tech Radiation Guard	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1515</td> <td>+704</td> </tr> <tr> <td>Topeka</td> <td>3226</td> <td>-1007</td> </tr> <tr> <td>Heebner</td> <td>3456</td> <td>-1237</td> </tr> <tr> <td>Lansing</td> <td>3505</td> <td>-1284</td> </tr> <tr> <td>Base KC</td> <td>3739</td> <td>-1520</td> </tr> <tr> <td>TD</td> <td>3898</td> <td>-1679</td> </tr> <tr> <td colspan="3">Arbuckle not reached</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1515	+704	Topeka	3226	-1007	Heebner	3456	-1237	Lansing	3505	-1284	Base KC	3739	-1520	TD	3898	-1679	Arbuckle not reached		
Name	Top	Datum																							
Anhydrite	1515	+704																							
Topeka	3226	-1007																							
Heebner	3456	-1237																							
Lansing	3505	-1284																							
Base KC	3739	-1520																							
TD	3898	-1679																							
Arbuckle not reached																									

CASING RECORD <input type="checkbox"/> New <input checked="" 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 1/4	8 5/8	23	329	common	175	2% gel, 3% CaCl

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

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

DISPOSITION OF GAS: <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)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Tomlinson Operating, LLC
7154 W. State Street, PMB 302
Boise, ID 83714

SID TOMLINSON
CYNDA TOMLINSON

Joy 18-1 Well
W/2 W/2 E/2 (2640' FNL & 2310' FEL)
Section 18-12-18w
Ellis County, KS

Elevations: 2209 GL
2219 KB

11-03-2010 TD 331', waiting on cement. Spud 5:45 PM on 2nd. Drilled 12¼" hole to 331'. **Ran 7 jts. used 8 5/8", 23#casing and set at 329'. Quality cemented with 175 sx common + 2% gel + 3% CaCl. Cement circulated to surface.** Plug down 10:45 PM on 2nd.

11-04-2010 Drilling @ 2184'.

11-05-2010 Drilling @ 2820'.

11-06-2010 Drilling @ 3410'.

11-07-2010 Drilling @ 3580'. Ran DST #1 at 3565.

11-08-2010 TD 3720', running DST #3. Ran DST #2 at 3586.

11-09-2010 TD 3850'. Going in hole to drill ahead after running DST #4 @ 3850'.

11-10-2010 TD 3900'. Plugged and Abandoned. Log Tech ran Radiation Guard Log.

Electric log tops:

Anhydrite	1515	+704
Topeka	3226	-1007
Heebner	3456	-1237
Lansing	3505	-1284
BKC	3739	-1520
TD	3898	-1679 Arbuckle not penetrated

DST #1 3487-3565 (Toronto, Lansing A,B,C) 30/30/30/30

Weak blow died in 25", no blow 2nd opening. **Recovered 10' mud.**

FP 17-20/20-23 psi. SIP 461-361 psi.

DST #2 3563-3586, (Lansing E/F) 30/30/30/30 Rec. 5' mud with oil spots.

Weak blow died, weak blow died on 2nd opening.

FP 20-20/19-19 psi. SIP 33-23 psi.

DST #3 3638-3720 (Lansing H,I,J,K) 30/30/30/30 Rec. 5' mud with oil spots.

Weak blow died in 20 min., 2nd opening no blow.

FP 21-20/18-18 psi DIO 38-29 psi.

DST #4 3751-3850 (Conglomerate) 30/30/30/30 Rec. 5' mud with oil spots.

Weak blow died 20 min., 2nd opening no blow.

FP 16-19/20-22 . SIP 221-119 psi.

Deviation surveys: ¾ degree @ 331', 1 ½ degree @ 3565', 1 degree @ 3900'.

FINAL REPORT – PLUGGED AND ABANDONED

RECEIVED
DEC 08 2010
KCC WICHITA

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., 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 "QUALITY" 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 "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY 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 term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'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 QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY 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 QUALITY, 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 QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'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. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY 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 QUALITY, 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 QUALITY'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 QUALITY or its employees.

2. With respect to any of QUALITY'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 QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY 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. QUALITY 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. QUALITY'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 QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY 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 QUALITY 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 QUALITY 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 QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025

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

No. 4572

Cell 785-324-1041

Date	11-9-10	Sec.	18	Twp.	12	Range	18	County	Ellis	State	KS	On Location		Finish	10:00PM
Lease	Joy		Well No.	18-1		Location Hays N to Buckeye rd 2W 1/2 N Winto									
Contractor	Southwind #2					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.									
Type Job	PTA					Charge To Tomlinson operating									
Hole Size	7 7/8		T.D.	3900'											
Csg.	4 1/2 X-hole		Depth	1539'											
Tbg. Size			Depth	859'											
Tool			Depth	379'											
Cement Left in Csg.			Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas-Line			Displace	Cement Amount Ordered 220 x 6 9/16 4 5/8 set 1/4 lb Flo											

EQUIPMENT

Pumptrk	9	No.	Cementer	Brandon	Common	132
			Helper			
Bulktrk		No.	Driver	Paul	Poz. Mix	88
			Driver			
Bulktrk	PH	No.	Driver	Jason	Gel.	8
			Driver			

JOB SERVICES & REMARKS

Remarks:		Calcium	
Rat Hole	30sx	Hulls	
Mouse Hole	15sx	Salt	
Centralizers		Flowseal	55#
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
Mix	255x @ 1539'	CFL-117 or CD110 CAF 38	
Mix	100sx @ 859'	Sand	
Mix	40sx @ 379'	Handling	228
Mix	10sx @ 40'	Mileage	
		FLOAT EQUIPMENT	
		Guide Shoe	
	30sx Rh	Centralizer	
	15sx MH	Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	
		1-8 5/8 dry hole plug	
		Pumptrk Charge	plug
		Mileage	9
		Tax	
		Discount	
		Total Charge	

RECEIVED
DEC 08 2010
KCC WICHITA

Thank You's

X Signature *Frank Rome*

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., 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 "QUALITY" 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 "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY 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 term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'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 QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY 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 QUALITY, 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 QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'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. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY 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 QUALITY, 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 QUALITY'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 QUALITY or its employees.

2. With respect to any of QUALITY'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 QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

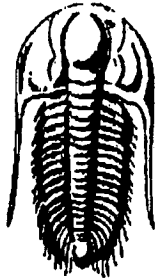
3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY 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. QUALITY'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 QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY 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 QUALITY 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 QUALITY 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 QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY 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: **Tomlinson Operating LLC**

7154 W State St PMB 302
Boise ID 83714

ATTN: Sid Tomlinson

18-12-18-Ellis KS

Joy # 18-1

Start Date: 2010.11.06 @ 23:00:44

End Date: 2010.11.07 @ 04:01:29

Job Ticket #: 040953 DST #: 1

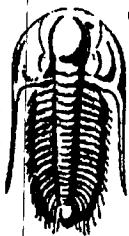
RECEIVED
DEC 08 2010
KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

ORIGINAL



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040953

DST#: 1

ATTN: Sid Tomlinson

Test Start: 2010.11.06 @ 23:00:44

GENERAL INFORMATION:

Formation: **B-C-D LK**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 00:43:44
 Time Test Ended: 04:01:29

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38

Interval: **3487.00 ft (KB) To 3565.00 ft (KB) (TVD)**
 Total Depth: 3565.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2219.00 ft (KB)
 2211.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

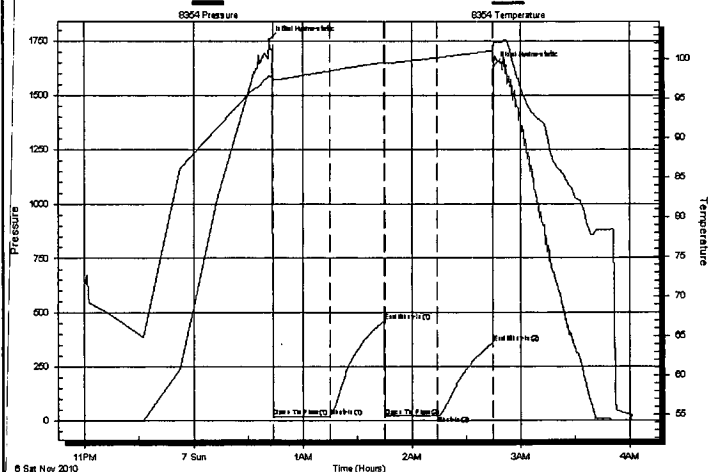
Press@RunDepth: 23.02 psig @ 3490.00 ft (KB)
 Start Date: 2010.11.06 End Date: 2010.11.07
 Start Time: 23:00:45 End Time: 04:01:29

Capacity: 8000.00 psig
 Last Calib.: 2010.11.07
 Time On Btm: 2010.11.07 @ 00:41:44
 Time Off Btm: 2010.11.07 @ 02:45:14

TEST COMMENT: IF-Weak died in 25 min

FF-No blow

Pressure vs. Time



PRESSURE SUMMARY

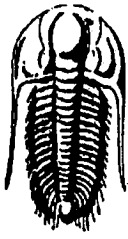
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.48	97.78	Initial Hydro-static
2	17.63	97.22	Open To Flow (1)
33	20.62	98.40	Shut-In(1)
63	461.21	99.50	End Shut-In(1)
64	20.88	99.39	Open To Flow (2)
93	23.02	100.12	Shut-In(2)
123	361.71	101.02	End Shut-In(2)
124	1634.94	101.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040953

DST#: 1

ATTN: Sid Tomlinson

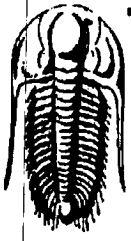
Test Start: 2010.11.06 @ 23:00:44

Tool Information

Drill Pipe:	Length: 3474.00 ft	Diameter: 3.80 inches	Volume: 48.73 bbl	Tool Weight: 2800.00 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
			<u>Total Volume: 48.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3487.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 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			3460.00	
Shut In Tool	5.00			3465.00	
Hydraulic tool	5.00			3470.00	
Jars	5.00			3475.00	
Safety Joint	3.00			3478.00	
Packer	5.00			3483.00	28.00 Bottom Of Top Packer
Packer	4.00			3487.00	
Stubb	1.00			3488.00	
Perforations	1.00			3489.00	
Change Over Sub	1.00			3490.00	
Recorder	0.00	8354	Inside	3490.00	
Recorder	0.00	8520	Outside	3490.00	
Drill Pipe	62.00			3552.00	
Change Over Sub	1.00			3553.00	
Perforations	9.00			3562.00	
Bullnose	3.00			3565.00	78.00 Bottom Packers & Anchor
Total Tool Length:	106.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-ellis KS

Job Ticket: 040953

DST#: 1

ATTN: Sid Tomlinson

Test Start: 2010.11.06 @ 23:00:44

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: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	Drig Mud	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbf

Num Fluid Samples: 0

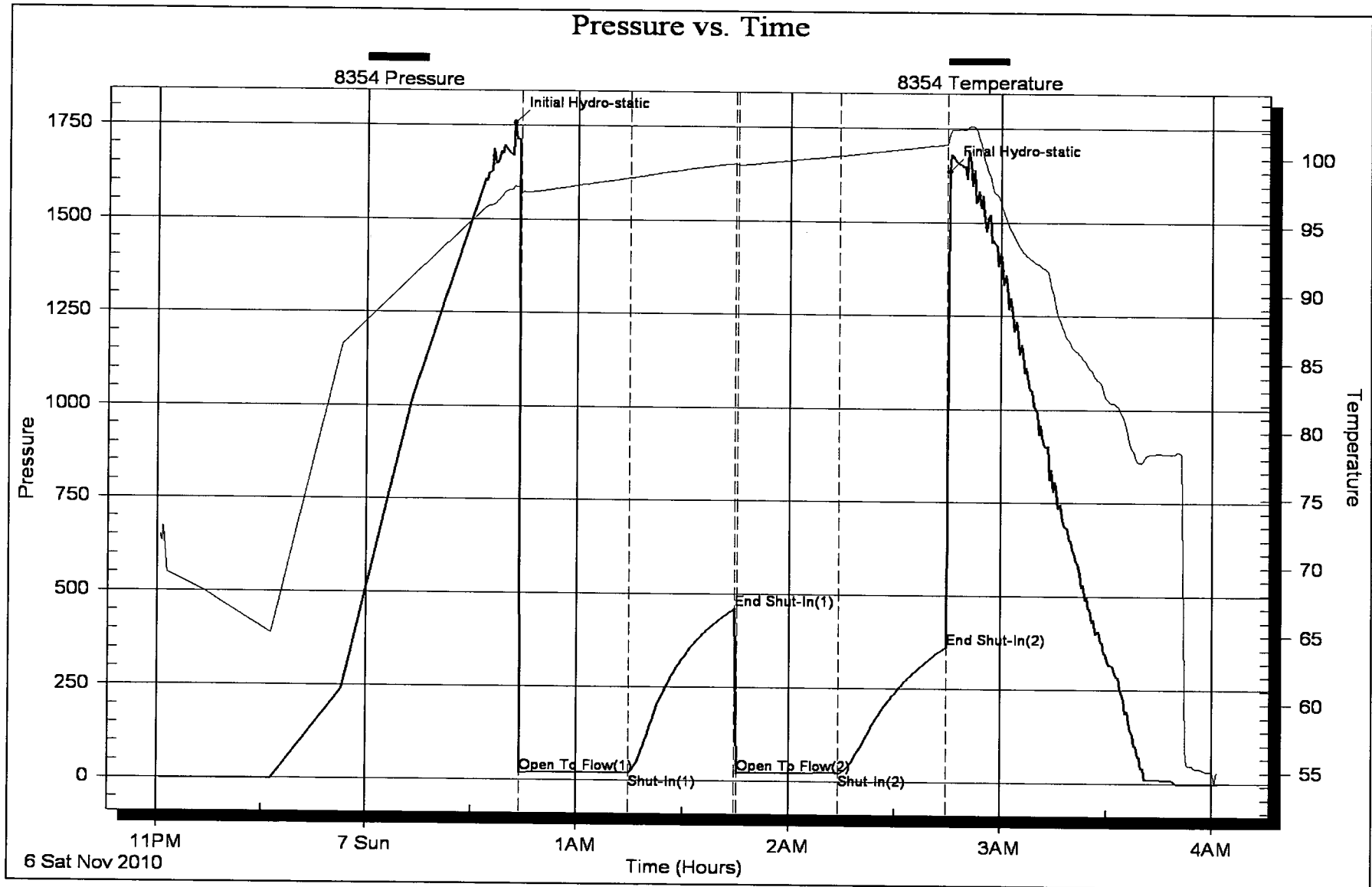
Num Gas Bombs: 0

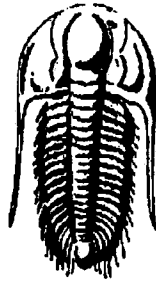
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St PMB 302
Boise ID 83714

ATTN: Sid Tomlinson

18-12-18-Ellis KS

Joy # 18-1

Start Date: 2010.11.07 @ 09:55:29

End Date: 2010.11.07 @ 14:37:44

Job Ticket #: 040954 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tomlinson Operating LLC

Joy # 18-1

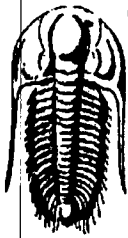
18-12-18-Ellis KS

DST # 2

E-F

LKC

2010.11.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-ELLIS KS

Job Ticket: 040954

DST#: 2

ATTN: Sid Tomlinson

Test Start: 2010.11.07 @ 09:55:29

GENERAL INFORMATION:

Formation: E-F LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:23:59

Time Test Ended: 14:37:44

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3563.00 ft (KB) To 3586.00 ft (KB) (TVD)

Reference Elevations: 2219.00 ft (KB)

Total Depth: 3586.00 ft (KB) (TVD)

2211.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 19.00 psig @ 3583.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.07

End Date:

2010.11.07

Last Calib.: 2010.11.07

Start Time: 09:55:30

End Time:

14:37:44

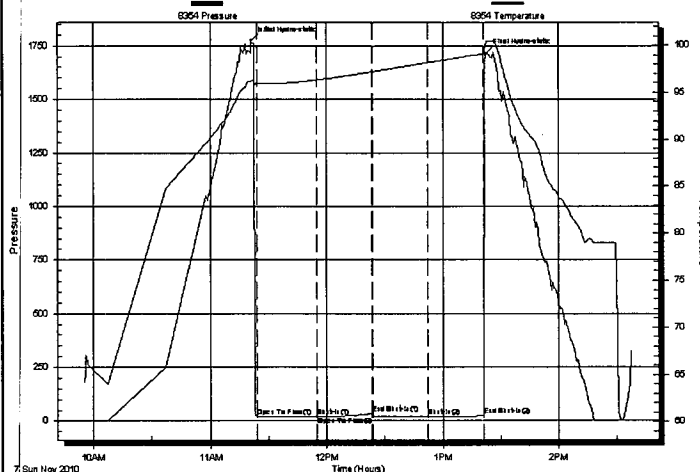
Time On Btm: 2010.11.07 @ 11:21:14

Time Off Btm: 2010.11.07 @ 13:22:29

TEST COMMENT: IF-Weak steady surface blow

FF-Weak steady surface blow

Pressure vs. Time



PRESSURE SUMMARY

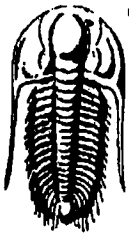
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.54	96.19	Initial Hydro-static
3	20.92	95.96	Open To Flow (1)
34	20.00	96.29	Shut-In(1)
63	33.33	97.17	End Shut-In(1)
63	19.41	97.17	Open To Flow (2)
91	19.00	98.16	Shut-In(2)
120	23.92	99.12	End Shut-In(2)
122	1715.19	100.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040954

DST#: 2

ATTN: Sid Tomlinson

Test Start: 2010.11.07 @ 09:55:29

Tool Information

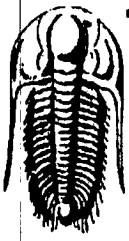
Drill Pipe:	Length: 3565.00 ft	Diameter: 3.80 inches	Volume: 50.01 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			Total Volume: 50.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3563.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 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			3536.00	
Shut In Tool	5.00			3541.00	
Hydraulic tool	5.00			3546.00	
Jars	5.00			3551.00	
Safety Joint	3.00			3554.00	
Packer	5.00			3559.00	28.00 Bottom Of Top Packer
Packer	4.00			3563.00	
Stubb	1.00			3564.00	
Perforations	19.00			3583.00	
Recorder	0.00	8354	Inside	3583.00	
Recorder	0.00	8520	Outside	3583.00	
Bullnose	3.00			3586.00	23.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040954

DST#: 2

ATTN: Sid Tomlinson

Test Start: 2010.11.07 @ 09:55:29

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/ oil spots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

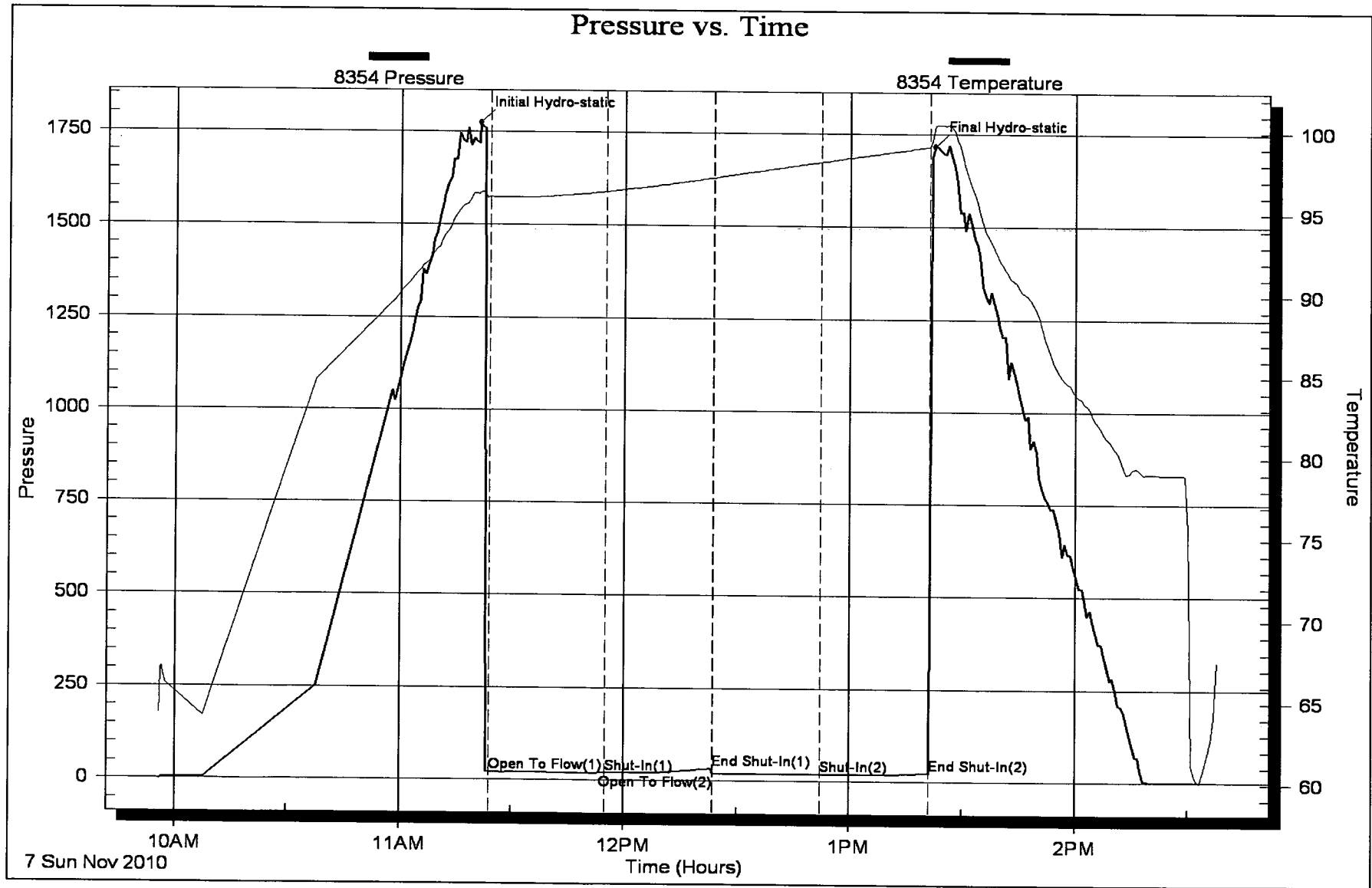
Num Gas Bombs: 0

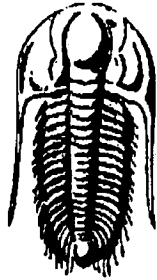
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St PMB 302
Boise ID 83714

ATTN: Sid Tomlinson

18-12-18-Ellis KS

Joy # 18-1

Start Date: 2010.11.08 @ 05:15:02

End Date: 2010.11.08 @ 09:58:02

Job Ticket #: 040955 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tomlinson Operating LLC

Joy # 18-1

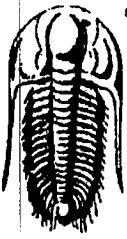
18-12-18-Ellis KS

DST # 3

I-J-K

LK

2010.11.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040955

DST#: 3

ATTN: Sid Tomlinson

Test Start: 2010.11.08 @ 05:15:02

GENERAL INFORMATION:

Formation: I-J-K LK

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:41:02

Time Test Ended: 09:58:02

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3638.00 ft (KB) To 3720.00 ft (KB) (TVD)

Total Depth: 3720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2219.00 ft (KB)

2211.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press@RunDepth: 18.98 psig @ 3641.00 ft (KB)

Start Date: 2010.11.08

End Date:

2010.11.08

Start Time: 05:15:03

End Time:

09:58:02

Capacity: 8000.00 psig

Last Calib.: 2010.11.08

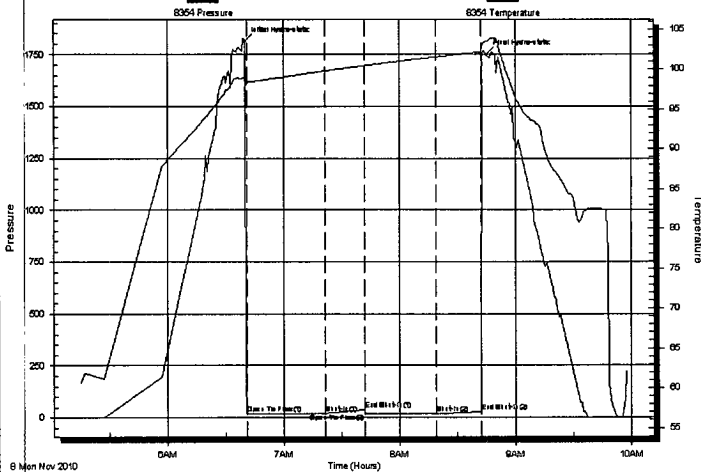
Time On Btm: 2010.11.08 @ 06:40:02

Time Off Btm: 2010.11.08 @ 08:45:02

TEST COMMENT: IF-Weak died in 20 min

FF-

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.13	98.83	Initial Hydro-static
1	21.88	98.48	Open To Flow (1)
42	20.92	99.79	Shut-In(1)
62	38.86	100.46	End Shut-In(1)
62	18.67	100.47	Open To Flow (2)
99	18.98	101.56	Shut-In(2)
122	29.48	102.21	End Shut-In(2)
125	1751.18	103.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040955

DST#: 3

ATTN: Sid Tomlinson

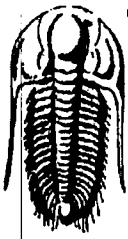
Test Start: 2010.11.08 @ 05:15:02

Tool Information

Drill Pipe:	Length: 3631.00 ft	Diameter: 3.80 inches	Volume: 50.93 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 50.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3638.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 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			3611.00	
Shut In Tool	5.00			3616.00	
Hydraulic tool	5.00			3621.00	
Jars	5.00			3626.00	
Safety Joint	3.00			3629.00	
Packer	5.00			3634.00	28.00 Bottom Of Top Packer
Packer	4.00			3638.00	
Stubb	1.00			3639.00	
Perforations	1.00			3640.00	
Change Over Sub	1.00			3641.00	
Recorder	0.00	8354	Inside	3641.00	
Recorder	0.00	8520	Outside	3641.00	
Drill Pipe	62.00			3703.00	
Change Over Sub	1.00			3704.00	
Perforations	13.00			3717.00	
Bullnose	3.00			3720.00	82.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040955

DST#: 3

ATTN: Sid Tomlinson

Test Start: 2010.11.08 @ 05:15:02

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

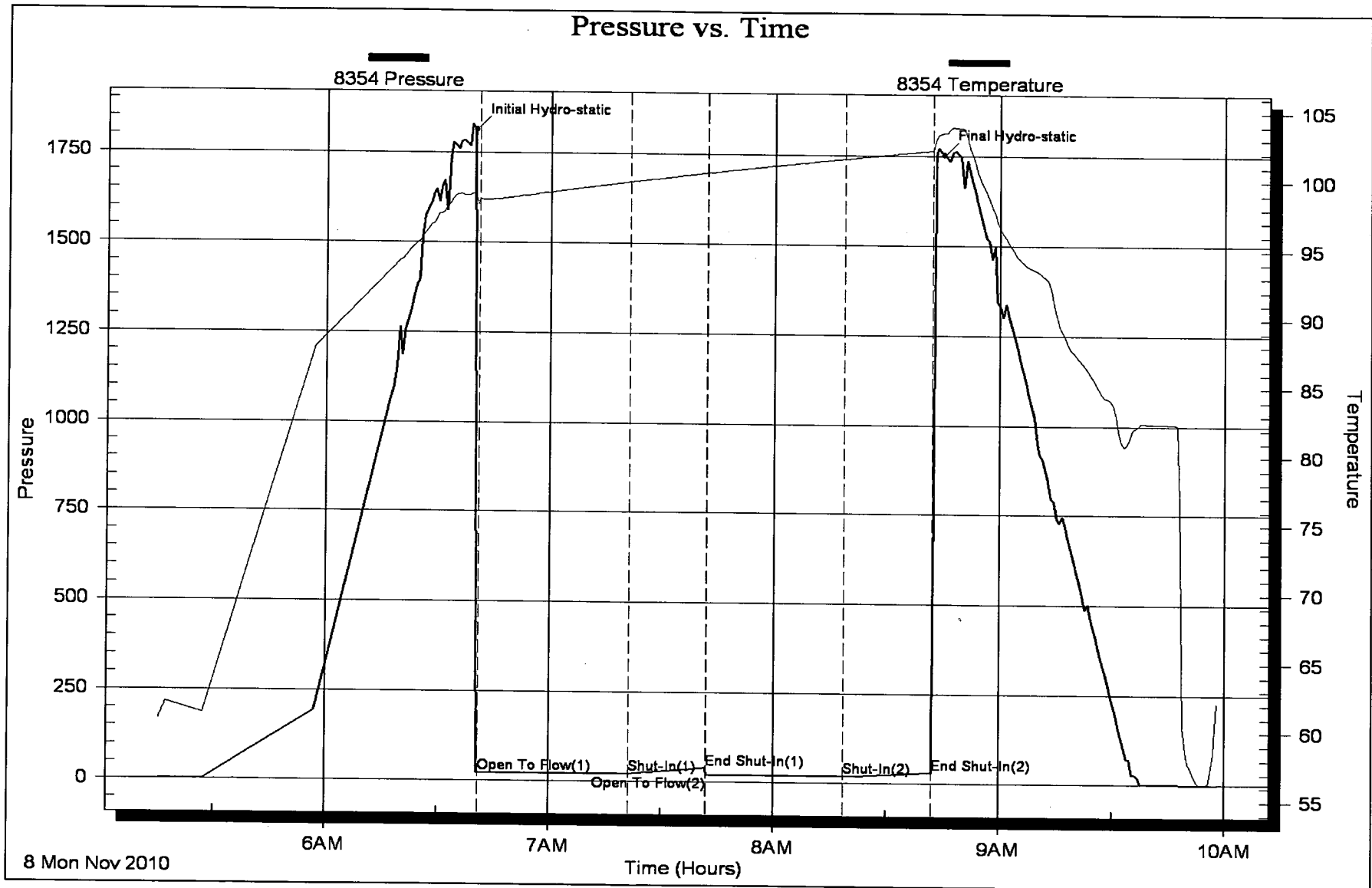
Num Gas Bombs: 0

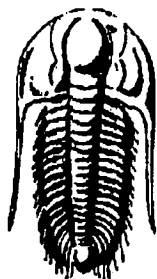
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St PMB 302
Boise ID 83714

ATTN: Sid Tomlinson

18-12-18-Ellis KS

Joy # 18-1

Start Date: 2010.11.09 @ 00:43:02

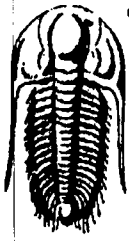
End Date: 2010.11.09 @ 05:47:17

Job Ticket #: 040956 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040956

DST#: 4

ATTN: Sid Tomlinson

Test Start: 2010.11.09 @ 00:43:02

GENERAL INFORMATION:

Formation: **Congl**

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

Time Tool Opened: 02:18:32

Time Test Ended: 05:47:17

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Interval: **3751.00 ft (KB) To 3850.00 ft (KB) (TVD)**

Reference Elevations: **2219.00 ft (KB)**

Total Depth: **3850.00 ft (KB) (TVD)**

2211.00 ft (CF)

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

KB to GR/CF: **8.00 ft**

Serial #: 8354 Inside

Press@RunDepth: **22.95 psig @ 3754.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.11.09**

End Date: **2010.11.09**

Last Calib.: **2010.11.09**

Start Time: **00:43:03**

End Time: **05:47:17**

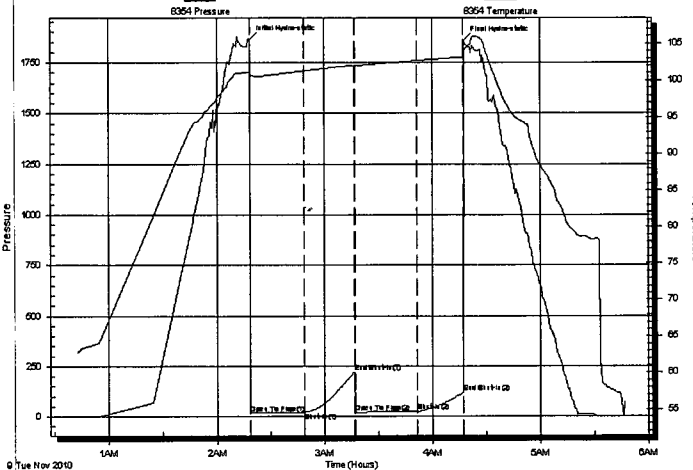
Time On Btm: **2010.11.09 @ 02:18:17**

Time Off Btm: **2010.11.09 @ 04:17:32**

TEST COMMENT: IF-Weak died in 15 min

FF-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.70	101.10	Initial Hydro-static
1	16.85	100.08	Open To Flow (1)
30	19.72	101.29	Shut-In(1)
58	221.94	102.05	End Shut-In(1)
59	20.59	101.99	Open To Flow (2)
93	22.95	102.66	Shut-In(2)
119	119.32	103.16	End Shut-In(2)
120	1855.86	103.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

ATTN: Sid Tomlinson

Job Ticket: 040956

DST#: 4

Test Start: 2010.11.09 @ 00:43:02

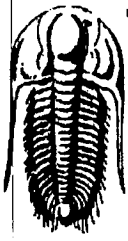
Tool Information

Drill Pipe:	Length: 3724.00 ft	Diameter: 3.80 inches	Volume: 52.24 bbl	Tool Weight: 2800.00 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
			<u>Total Volume: 52.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3751.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	126.00 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			3724.00	
Shut In Tool	5.00			3729.00	
Hydraulic tool	5.00			3734.00	
Jars	5.00			3739.00	
Safety Joint	3.00			3742.00	
Packer	5.00			3747.00	28.00 Bottom Of Top Packer
Packer	4.00			3751.00	
Stubb	1.00			3752.00	
Perforations	1.00			3753.00	
Change Over Sub	1.00			3754.00	
Recorder	0.00	8354	Inside	3754.00	
Recorder	0.00	8520	Outside	3754.00	
Drill Pipe	62.00			3816.00	
Change Over Sub	1.00			3817.00	
Perforations	29.00			3846.00	
Bullnose	3.00			3849.00	98.00 Bottom Packers & Anchor
Total Tool Length:	126.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tomlinson Operating LLC

Joy # 18-1

7154 W State St PMB 302
Boise ID 83714

18-12-18-Ellis KS

Job Ticket: 040956

DST#: 4

ATTN: Sid Tomlinson

Test Start: 2010.11.09 @ 00:43:02

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots	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:

