

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009

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

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

11/8/11

OPERATOR: License # 8628  
Name: CREDO PETROLEUM CORPORATION  
Address 1: 1801BROADWAY  
Address 2: SUITE 900  
City: DENVER State: CO Zip: 80202  
Contact Person: JACK RENFRO  
Phone: (303) 297-2200  
CONTRACTOR: License # 33575  
Name: WW DRILLING  
Wellsite Geologist: BRUCE ARD  
Purchaser: N/A

**KCC**  
**NOV 08 2010**  
**CONFIDENTIAL**

API No. 15 - 171-20783-00-00  
Spot Description: \_\_\_\_\_  
NE SE NE SW Sec. 5 Twp. 17 S. R. 31  East  West  
1,850 Feet from  North /  South Line of Section  
2,635 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: SCOTT  
Lease Name: BJH Well #: 1-5

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.): \_\_\_\_\_

Field Name: \_\_\_\_\_  
Producing Formation: N/A  
Elevation: Ground: 2950 Kelly Bushing: 2955  
Total Depth: 4720 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 249 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.

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 #: \_\_\_\_\_  
10/21/10 10/30/10 10/31/10  
Spud Date or Date Reached TD Completion Date or Recompletion Date

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 4400 ppm Fluid volume: 750 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: \_\_\_\_\_  
Title: OPERATIONS MANAGER Date: 11/8/2010

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: 11/8/10 - 11/8/11 RECEIVED  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: PA Date: NOV 10 2010  
1-25-11  
WICHITA

KCC  
NOV 08 2010  
CONFIDENTIAL

Operator Name: CREDO PETROLEUM CORPORATION Lease Name: BJH Well #: 1-5  
 Sec. 5 Twp. 17 S. R. 31  East  West County: SCOTT

**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: <b>DUAL INDUCTION, DUAL COMPENSATED POROSITY,                  MICRORESISTIVITY, BOREHOLE COMPENSATED SONIC</b>	<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>2293</td> <td>+655</td> </tr> <tr> <td>HEEBNER</td> <td>3741</td> <td>-986</td> </tr> <tr> <td>LANSING</td> <td>3982</td> <td>-1027</td> </tr> <tr> <td>BKC</td> <td>4338</td> <td>-1383</td> </tr> <tr> <td>MARMATON</td> <td>4370</td> <td>-1415</td> </tr> <tr> <td>FT SCOTT</td> <td>4503</td> <td>-1548</td> </tr> <tr> <td>MISSISSIPPIAN</td> <td>4628</td> <td>-1693</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	2293	+655	HEEBNER	3741	-986	LANSING	3982	-1027	BKC	4338	-1383	MARMATON	4370	-1415	FT SCOTT	4503	-1548	MISSISSIPPIAN	4628	-1693
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	24#	249	COMMON	170	3%CC, 2%GEL

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

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

RECEIVED  
NOV 10 2010

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio Gravity

KCC WICHITA

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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 035599

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

KCC  
NOV 08 2010

SERVICE POINT:

10-30-10 DATE	SEC. 5	TWP. 17	RANGE 31	CONFIDENTIAL	8:00pm CALLED OUT	ON LOCATION	10-31-10 JOB START 7:30am	JOB FINISH 9:00am
B5H LEASE	WELL# 1-S	LOCATION Hwy 4 + Manning Rd			2 1/2 cu OLD OR <u>NEW</u> (Circle one)	2 1/2 cu NEW	SCOTT COUNTY	KS STATE

CONTRACTOR W-U #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4720'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 2360'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 300 sacks 60140  
490 gel 140 flossal

COMMON	<u>180</u>	@	<u>15.45</u>	<u>2781.00</u>
POZMIX	<u>120</u>	@	<u>8.00</u>	<u>960.00</u>
GEL	<u>10</u>	@	<u>20.80</u>	<u>208.00</u>
CHLORIDE		@		
ASC		@		
<u>flossal</u>	<u>75</u>	@	<u>2.50</u>	<u>187.50</u>
HANDLING	<u>313</u>	@	<u>2.40</u>	<u>751.20</u>
MILEAGE	<u>104.54 miles</u>			<u>1408.50</u>
TOTAL				<u>6296.20</u>

EQUIPMENT

PUMP TRUCK CEMENTER Fuzz4

# 431 HELPER Billy

BULK TRUCK

# 396 DRIVER Jeary

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

50 sk @ 2360'

80 sk @ 1625'

50 sk @ 800'

50 sk @ 280'

20 sk @ 60' w/wiper plus

30 sk RH

20 sk MH

Job complete @ 7:45am

Thanks Fuzz4 crew

CHARGE TO: Credo Petroleum Co

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>2360</u>		
PUMP TRUCK CHARGE			<u>1185.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>45</u>	@	<u>7.00</u>
MANIFOLD		@	
RECEIVED			

NOV 10 2010

KCC WICHITA

TOTAL 1500.00

PLUG & FLOAT EQUIPMENT

<u>1.891E plug</u>	@	<u>40.00</u>
	@	
	@	
	@	
	@	
TOTAL <u>40.00</u>		

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME DON GUY

SIGNATURE Don Guy

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

## GENERAL TERMS AND CONDITIONS

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

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

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

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

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

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

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

### —SERVICE CONDITIONS AND LIABILITIES:

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

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

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

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

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

### WARRANTIES:

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

### 2. More specifically:

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

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

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

# ALLIED CEMENTING CO., LLC. 035497

KCC

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

NOV 08 2010

SERVICE POINT:

*Oakley*

CONFIDENTIAL

DATE <i>10/21/10</i>	SEC. <i>5</i>	TWP. <i>17</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>5:30pm</i>	JOB FINISH <i>6:00pm</i>
LEASE <i>B5H</i>	WELL # <i>15</i>	LOCATION <i>Hwy 40 Manning Rd 2 1/2 W N into</i>			COUNTY <i>Scott</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>							

CONTRACTOR *WVW 2*

TYPE OF JOB *Surface*

HOLE SIZE *10 7/8* T.D. *249*

CASING SIZE *8 7/8* DEPTH *249*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *14.90*

OWNER *Same*

CEMENT

AMOUNT ORDERED *170 SKS Com*  
*300CL 200gel*

COMMON	<i>170</i>	@	<i>15.45</i>	<i>2626.50</i>
POZMIX		@		
GEL	<i>3</i>	@	<i>20.00</i>	<i>62.40</i>
CHLORIDE	<i>6</i>	@	<i>58.00</i>	<i>349.20</i>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>179 SKs</i>	@	<i>2.40</i>	<i>429.60</i>
MILEAGE	<i>10 @ 5K/mile</i>			<i>505.00</i>
TOTAL				<i>4233.00</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

# *386-281* HELPER *Wayne*

BULK TRUCK

# *386* DRIVER *Farren*

BULK TRUCK

# DRIVER

REMARKS:

*Run 8 7/8 csg, Circulate,*  
*mix 170 SKs Com 300CL 200 gel*  
*Displace w/ 14.90 BBL H<sub>2</sub>O*  
*Cement Did Circulate*  
*Through Yr*  
*Alan, Wayne,*

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<i>1018.00</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>45</i>	@	<i>7.00</i> <i>315.00</i>
MANIFOLD		@	
		@	
		@	
TOTAL			<i>1333.00</i>

CHARGE TO: *Credo Petroleum Corp.*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

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PRINTED NAME *DON GUY*

SIGNATURE *Don Guy*

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

Cell-405-641-6554

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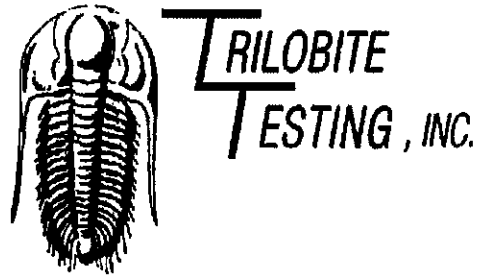
2. More specifically:

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

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

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

CONFIDENTIAL



**DRILL STEM TEST REPORT**

Prepared For: **Credo Petroleum Corporation**

1801 Broadway # 900  
Denver, CO 80202

ATTN: Bruce Ard

**5-17s-31w Scott,KS**

**BJH #1-5**

Start Date: 2010.10.26 @ 07:58:00

End Date: 2010.10.26 @ 15:34:00

Job Ticket #: 039508      DST #: 1

RECEIVED

NOV 24 2010

KCC WICHITA

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

Credo Petroleum Corporation

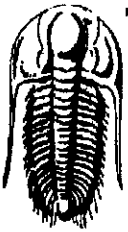
BJH #1-5

5-17s-31w Scott,KS

DST # 1

Lansing D-F

2010.10.26



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039508

DST#: 1

ATTN: Bruce Ard

Test Start: 2010.10.26 @ 07:58:00

## GENERAL INFORMATION:

Formation: **Lansing D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:03:00

Time Test Ended: 15:34:00

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 28

Interval: **4040.00 ft (KB) To 4080.00 ft (KB) (TVD)**

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753**

Inside

Press@RunDepth: 153.24 psig @ 4041.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.26

End Date: 2010.10.26

Last Calib.: 2010.10.26

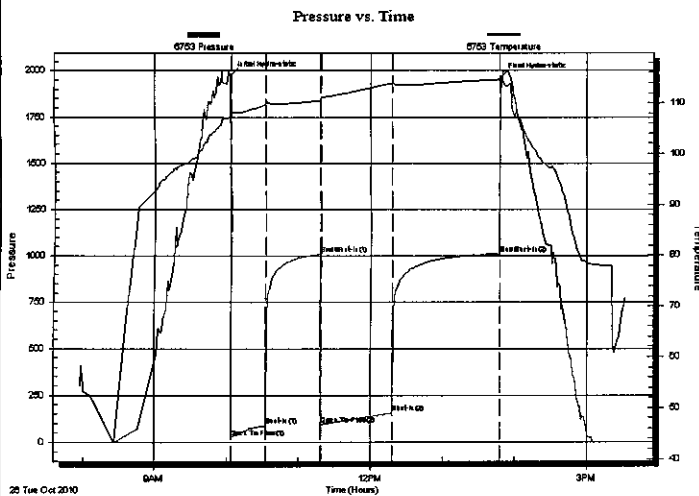
Start Time: 07:58:05

End Time: 15:33:59

Time On Btm: 2010.10.26 @ 10:02:45

Time Off Btm: 2010.10.26 @ 13:48:45

**TEST COMMENT:** IF: 6 inch blow.  
IS: No return.  
FF: 4 inch blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.55	107.38	Initial Hydro-static
1	24.48	108.07	Open To Flow (1)
30	86.40	109.69	Shut-In(1)
76	1010.28	110.46	End Shut-In(1)
76	94.24	111.04	Open To Flow (2)
136	153.24	113.91	Shut-In(2)
225	1013.13	114.69	End Shut-In(2)
226	1964.17	113.84	Final Hydro-static

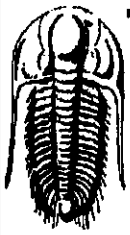
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 30%w 70%m	0.30
220.00	mcw 30%m 70%w	2.22

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039508

DST#: 1

ATTN: Bruce Ard

Test Start: 2010.10.26 @ 07:58:00

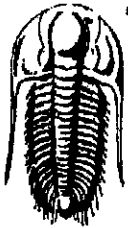
## Tool Information

Drill Pipe:	Length: 3877.00 ft	Diameter: 3.80 inches	Volume: 54.38 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 55.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4040.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			4013.00	
Shut In Tool	5.00			4018.00	
Hydraulic tool	5.00			4023.00	
Jars	5.00			4028.00	
Safety Joint	2.00			4030.00	
Packer	5.00			4035.00	28.00 Bottom Of Top Packer
Packer	5.00			4040.00	
Stubb	1.00			4041.00	
Recorder	0.00	6753	Inside	4041.00	
Recorder	0.00	8654	Inside	4041.00	
Perforations	3.00			4044.00	
Change Over Sub	1.00			4045.00	
Drill Pipe	31.00			4076.00	
Change Over Sub	1.00			4077.00	
Bullnose	3.00			4080.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039508

**DST#: 1**

ATTN: Bruce Ard

Test Start: 2010.10.26 @ 07:58:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
60.00	w cm 30%w 70%m	0.295
220.00	mcw 30%m 70%w	2.221

Total Length: 280.00 ft

Total Volume: 2.516 bbf

Num Fluid Samples: 0

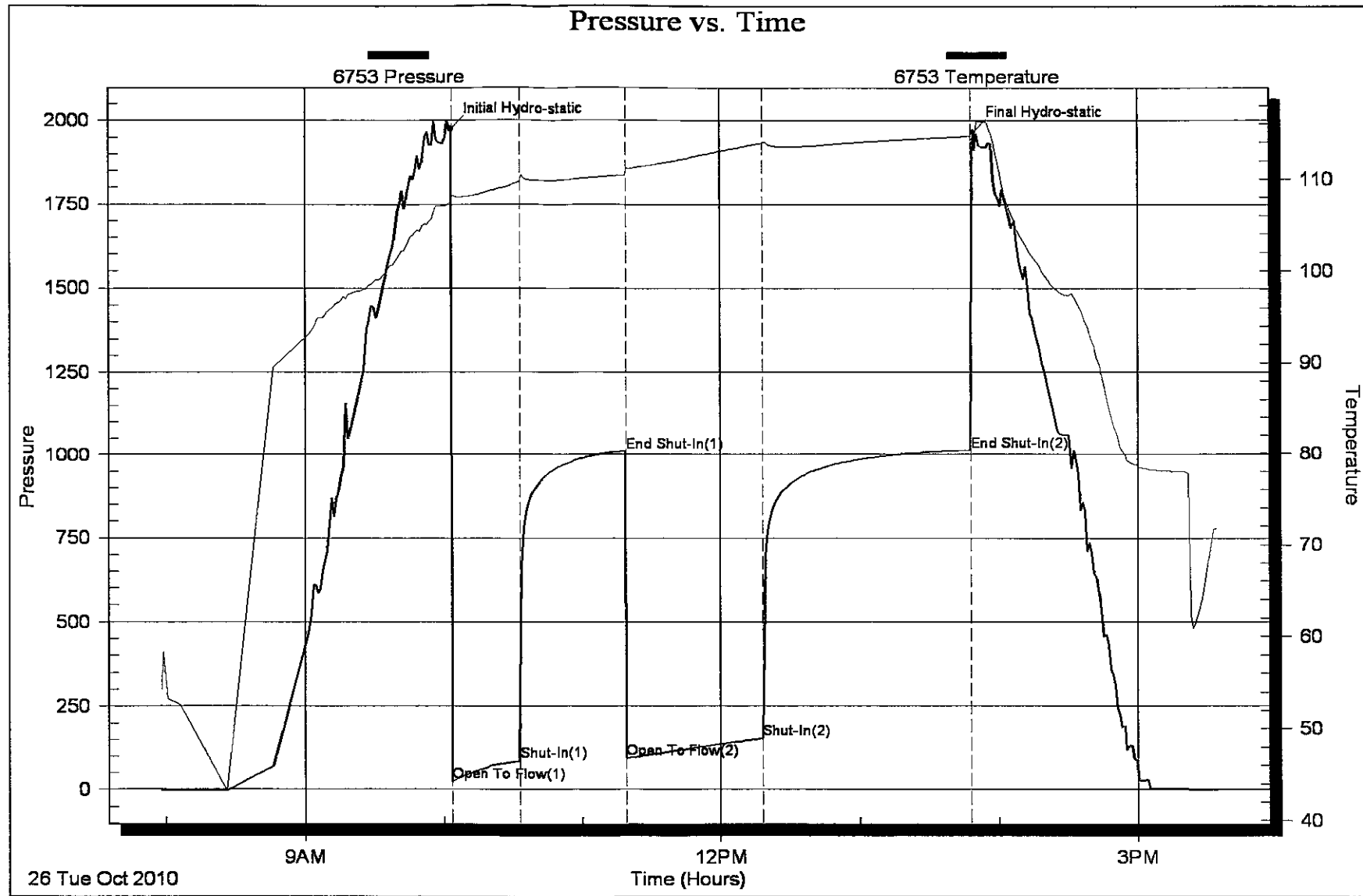
Num Gas Bombs: 0

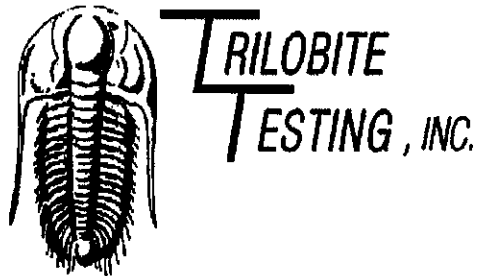
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .190 @ 69 degrees F = 38000ppm





**DRILL STEM TEST REPORT**

Prepared For: **Credo Petroleum Corporation**

1801 Broadway # 900  
Denver, CO 80202

ATTN: Bruce Ard

**5-17s-31w Scott,KS**

**BJH #1-5**

Start Date: 2010.10.27 @ 07:12:40

End Date: 2010.10.27 @ 15:32:55

Job Ticket #: 039509                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Credo Petroleum Corporation

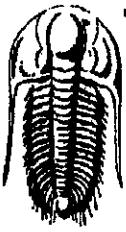
BJH #1-5

5-17s-31w Scott,KS

DST # 2

Lansing " 1 "

2010.10.27



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Credo Petroleum Corporation  
 1801 Broadway # 900  
 Denver, CO 80202  
 ATTN: Bruce Ard

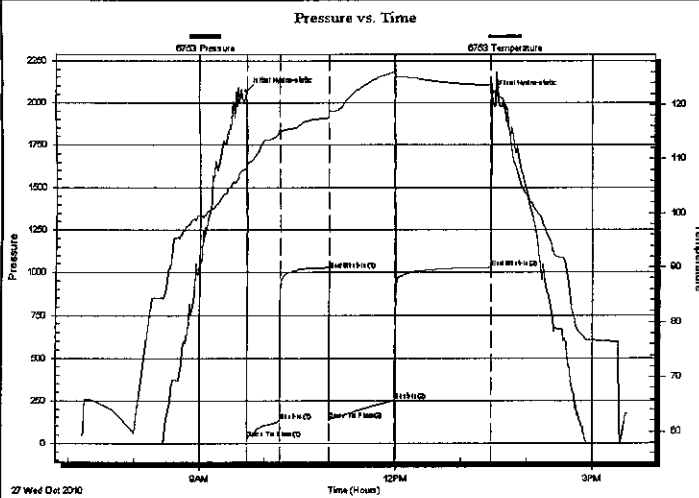
**BJH #1-5**  
**5-17s-31w Scott,KS**  
 Job Ticket: 039509      DST#: 2  
 Test Start: 2010.10.27 @ 07:12:40

## GENERAL INFORMATION:

Formation: **Lansing "I"**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 09:43:40  
 Time Test Ended: 15:32:55  
 Interval: **4185.00 ft (KB) To 4225.00 ft (KB) (TVD)**  
 Total Depth: **4225.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Bradley Walter  
 Unit No: 28  
 Reference Elevations: 2955.00 ft (KB)  
 2950.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6753**      Inside  
 Press@RunDepth: 251.93 psig @ 4186.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.10.27      End Date: 2010.10.27      Last Calib.: 2010.10.27  
 Start Time: 07:12:45      End Time: 15:32:54      Time On Btm: 2010.10.27 @ 09:42:40  
 Time Off Btm: 2010.10.27 @ 13:28:10

**TEST COMMENT:** IF: BOB @ 27 minutes.  
 IS: No return.  
 FF: BOB @ 35 minutes.  
 FS: No return.



## PRESSURE SUMMARY

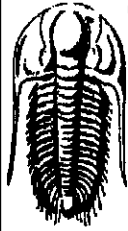
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.29	108.34	Initial Hydro-static
1	26.55	108.11	Open To Flow (1)
31	131.99	115.37	Shut-In(1)
76	1015.43	117.65	End Shut-In(1)
76	136.49	118.49	Open To Flow (2)
137	251.93	126.01	Shut-In(2)
225	1027.81	123.59	End Shut-In(2)
226	2052.25	122.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud (heavy) 100%m	0.05
350.00	mcw 15%m 85%w	3.59
120.00	w cm 10%w 90%m	1.68

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott, KS**

Job Ticket: 039509

**DST#: 2**

ATTN: Bruce Ard

Test Start: 2010.10.27 @ 07:12:40

### Tool Information

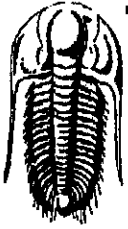
Drill Pipe:	Length: 4033.00 ft	Diameter: 3.80 inches	Volume: 56.57 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 89000.00 lb
			<u>Total Volume: 57.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4185.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			4158.00	
Shut In Tool	5.00			4163.00	
Hydraulic tool	5.00			4168.00	
Jars	5.00			4173.00	
Safety Joint	2.00			4175.00	
Packer	5.00			4180.00	28.00 Bottom Of Top Packer
Packer	5.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	6753	Inside	4186.00	
Recorder	0.00	8654	Inside	4186.00	
Perforations	3.00			4189.00	
Change Over Sub	1.00			4190.00	
Drill Pipe	31.00			4221.00	
Change Over Sub	1.00			4222.00	
Bullnose	3.00			4225.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039509

DST#: 2

ATTN: Bruce Ard

Test Start: 2010.10.27 @ 07:12:40

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

2300 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.54 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	mud (heavy) 100%m	0.049
350.00	mcw 15%m 85%w	3.589
120.00	w cm 10%w 90%m	1.683

Total Length: 480.00 ft      Total Volume: 5.321 bbl

Num Fluid Samples: 0

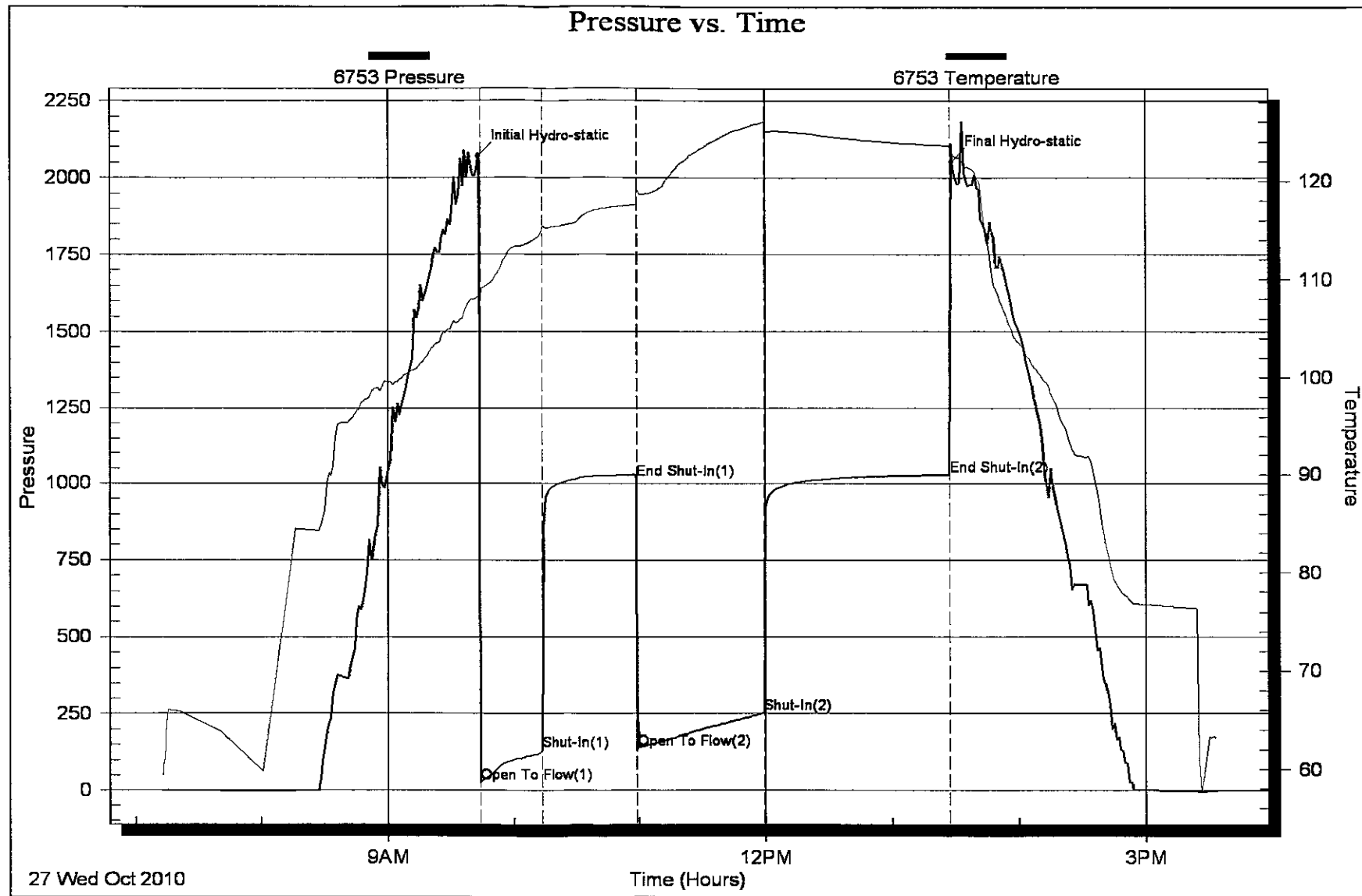
Num Gas Bombs: 0

Serial #:

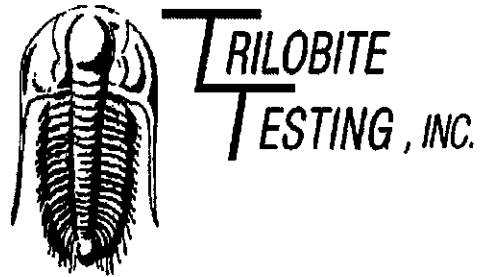
Laboratory Name:

Laboratory Location:

Recovery Comments: rw .250 @ 70 dgrees F = 2300ppm







## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway # 900  
Denver, CO 80202

ATTN: Bruce Ard

**5-17s-31w Scott,KS**

**BJH #1-5**

Start Date: 2010.10.29 @ 03:50:00

End Date: 2010.10.29 @ 11:12:45

Job Ticket #: 039510      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Credo Petroleum Corporation

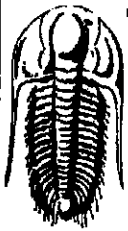
BJH #1-5

5-17s-31w Scott,KS

DST # 3

CK - Johnson

2010.10.29



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039510

DST#: 3

ATTN: Bruce Ard

Test Start: 2010.10.29 @ 03:50:00

### GENERAL INFORMATION:

Formation: **CK - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:26:15

Time Test Ended: 11:12:45

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 28

Interval: **4524.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2955.00 ft (KB)

2950.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6753**

Inside

Press@RunDepth: 28.37 psig @ 4525.00 ft (KB)

Start Date: 2010.10.29

End Date: 2010.10.29

Start Time: 03:50:05

End Time: 11:12:44

Capacity: 8000.00 psig

Last Calib.: 2010.10.29

Time On Btm: 2010.10.29 @ 06:25:00

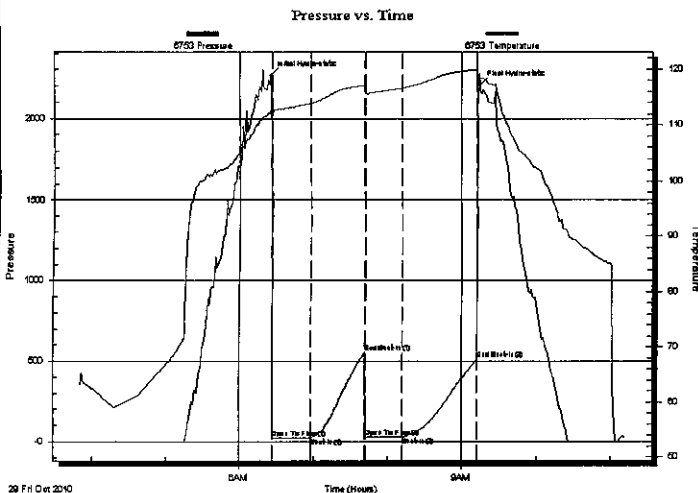
Time Off Btm: 2010.10.29 @ 09:14:30

TEST COMMENT: IF: Surface Blow.

IS: No return.

FF: No blow.

FSI: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.29	112.45	Initial Hydro-static
2	22.75	111.82	Open To Flow (1)
32	25.95	113.81	Shut-In(1)
77	555.56	116.99	End Shut-In(1)
77	27.79	115.58	Open To Flow (2)
107	28.37	116.56	Shut-In(2)
168	511.48	119.81	End Shut-In(2)
170	2205.75	118.39	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% m w /oil spots	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039510

**DST#: 3**

ATTN: Bruce Ard

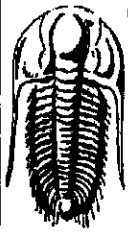
Test Start: 2010.10.29 @ 03:50:00

### Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 85000.00 lb
		<b>Total Volume:</b>	<b>61.75 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4524.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	104.00 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			4497.00	
Shut In Tool	5.00			4502.00	
Hydraulic tool	5.00			4507.00	
Jars	5.00			4512.00	
Safety Joint	2.00			4514.00	
Packer	5.00			4519.00	28.00 Bottom Of Top Packer
Packer	5.00			4524.00	
Stubb	1.00			4525.00	
Recorder	0.00	6753	inside	4525.00	
Recorder	0.00	8654	inside	4525.00	
Perforations	7.00			4532.00	
Change Over Sub	1.00			4533.00	
Drill Pipe	62.00			4595.00	
Change Over Sub	1.00			4596.00	
Perforations	1.00			4597.00	
Bullnose	3.00			4600.00	76.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>104.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 039510

**DST#: 3**

ATTN: Bruce Ard

Test Start: 2010.10.29 @ 03:50:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100% m w/oil spots	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

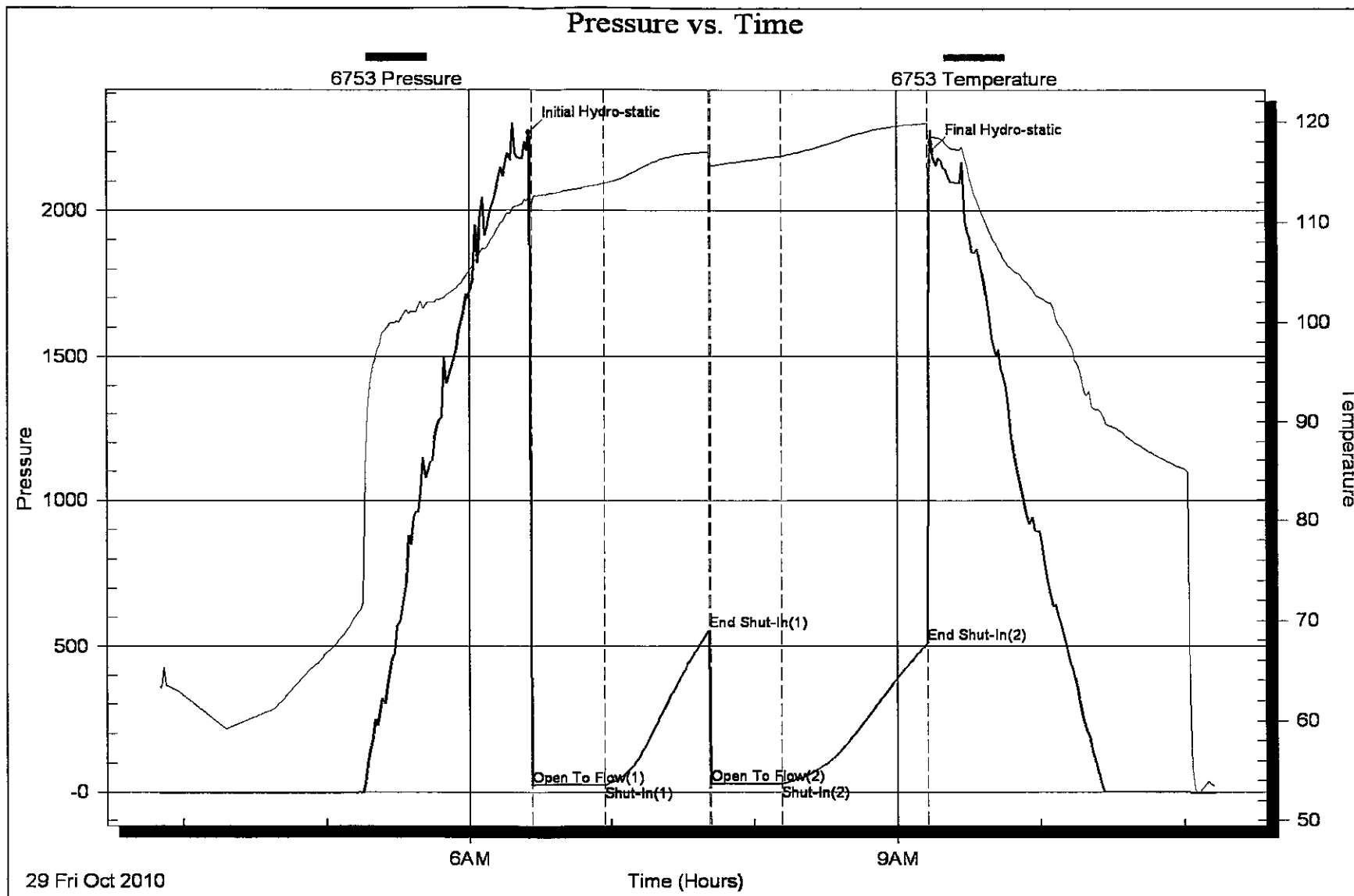
Num Gas Bombs: 0

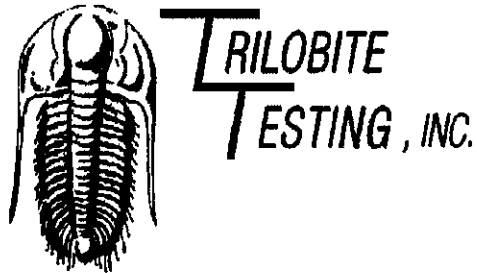
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway # 900  
Denver, CO 80202

ATTN: Bruce Ard

**5-17s-31w Scott,KS**

**BJH #1-5**

Start Date: 2010.10.30 @ 15:44:00

End Date: 2010.10.30 @ 23:24:00

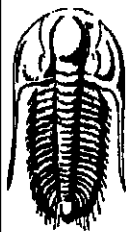
Job Ticket #: 39511                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott, KS**

Job Ticket: 39511

DST#: 4

ATTN: Bruce Ard

Test Start: 2010.10.30 @ 15:44:00

## Tool Information

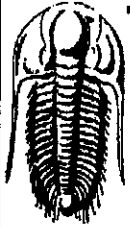
Drill Pipe:	Length: 4073.00 ft	Diameter: 3.80 inches	Volume: 57.13 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 87000.00 lb
			<u>Total Volume: 57.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4228.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	4248.00 ft			
Interval between Packers:	20.00 ft			
Tool Length:	515.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4213.00	
Hydraulic tool	5.00			4218.00	
Packer	5.00			4223.00	20.00 Bottom Of Top Packer
Packer	5.00			4228.00	
Stubb	1.00			4229.00	
Recorder	0.00	6753	Inside	4229.00	
Recorder	0.00	8654	Inside	4229.00	
Perforations	14.00			4243.00	
Blank Off Sub	1.00			4244.00	
Blank Spacing	4.00			4248.00	20.00 Tool Interval
Packer	1.00			4249.00	
Stubb	1.00			4250.00	
Recorder	0.00	8671	Inside	4250.00	
Change Over Sub	1.00			4251.00	
Drill Pipe	468.00			4719.00	
Change Over Sub	1.00			4720.00	
Bullnose	3.00			4723.00	475.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>515.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Credo Petroleum Corporation

**BJH #1-5**

1801 Broadway # 900  
Denver, CO 80202

**5-17s-31w Scott,KS**

Job Ticket: 39511

**DST#: 4**

ATTN: Bruce Ard

Test Start: 2010.10.30 @ 15:44:00

**Mud and Cushion Information.**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4900 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	mud (heavy) 100%	0.049
300.00	mcw 10%m 90%w	2.887
120.00	mcw 30%m 70%w	1.683

Total Length: 430.00 ft      Total Volume: 4.619 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is 1.55 @ 55 degrees F = 4900 ppm

