



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1058765

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

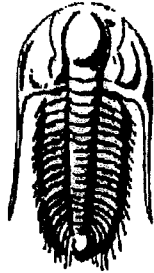
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD 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 <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Credo Petroleum Corporation
Well Name	HARTZFELD 1-22
Doc ID	1058765

All Electric Logs Run

DUAL POROSITY
DUAL INDUCTION
MICRORESISTIVITY
SONIC



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

22 10s 35w Thomas KS

Hartzfeld 1-22

Start Date: 2011.05.16 @ 20:50:00

End Date: 2011.05.17 @ 05:05:30

Job Ticket #: 040808 DST #: 1

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

Credo Petroleum Corporation

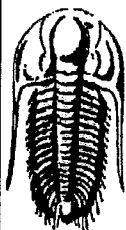
Hartzfeld 1-22

22 10s 35w Thomas KS

DST # 1

LKC-C,D

2011.05.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040808 DST#: 1

ATTN: Bruce Ard

Test Start: 2011.05.16 @ 20:50:00

GENERAL INFORMATION:

Formation: **LKC-C,D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:26:30

Time Test Ended: 05:05:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: **4185.00 ft (KB) To 4245.00 ft (KB) (TVD)**

Reference Elevations: 3287.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8651

Outside

Press@RunDepth: 594.96 psig @ 4186.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.16 End Date: 2011.05.17

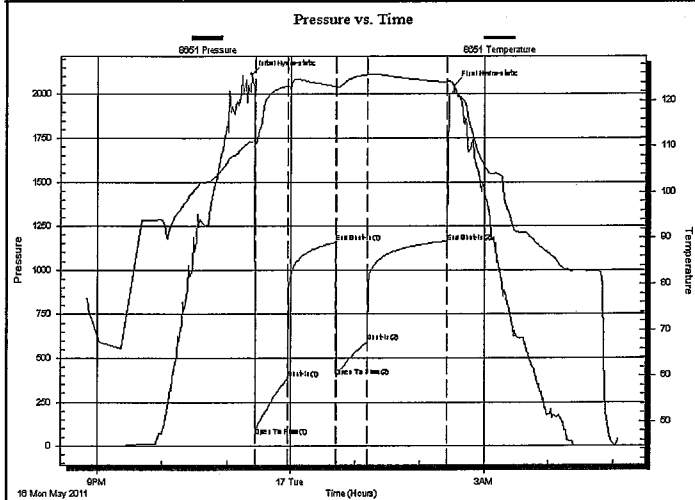
Last Calib.: 2011.05.17

Start Time: 20:50:05 End Time: 05:05:29

Time On Btmr: 2011.05.16 @ 23:23:00

Time Off Btmr: 2011.05.17 @ 02:32:00

TEST COMMENT: IF: Strong blow, Built to BOB in 3 mins.
 ISI: Blow Died within 45 sec. after shutting tool in. No blow back over 45 mins.
 FF: Strong blow, Built to BOB in 4 mins.
 FSI No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.03	111.00	Initial Hydro-static
4	56.28	110.45	Open To Flow (1)
34	383.98	123.21	Shut-In(1)
79	1155.50	123.10	End Shut-In(1)
80	398.54	122.92	Open To Flow (2)
109	594.96	125.51	Shut-In(2)
183	1159.58	123.87	End Shut-In(2)
189	2049.40	121.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
986.00	mcw - 10% m 90% w	12.74
186.00	w cm - 50% w 50% m	2.61
186.00	w cm - 20% w 80% m	2.61
10.00	mud- With 6in. free oil on top	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040808

DST#: 1

ATTN: Bruce Ard

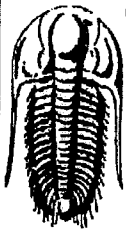
Test Start: 2011.05.16 @ 20:50:00

Tool Information

Drill Pipe:	Length: 4066.00 ft	Diameter: 3.80 inches	Volume: 57.04 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 57.63 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4185.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4162.00	
Hydraulic tool	5.00			4167.00	
Jars	5.00			4172.00	
Safety Joint	3.00			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	6752	Inside	4186.00	
Recorder	0.00	8651	Outside	4186.00	
Perforations	4.00			4190.00	
Change Over Sub	1.00			4191.00	
Blank Spacing	30.00			4221.00	
Change Over Sub	1.00			4222.00	
Perforations	20.00			4242.00	
Bullnose	3.00			4245.00	60.00 Bottom Packers & Anchor
Total Tool Length:		88.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040808 DST#: 1

ATTN: Bruce Ard

Test Start: 2011.05.16 @ 20:50:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: 0.55 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
986.00	mcw - 10% m 90% w	12.738
186.00	w cm - 50% w 50% m	2.609
186.00	w cm - 20% w 80% m	2.609
10.00	mud - With 6 in. free oil on top	0.140

Total Length: 1368.00 ft Total Volume: 18.096 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

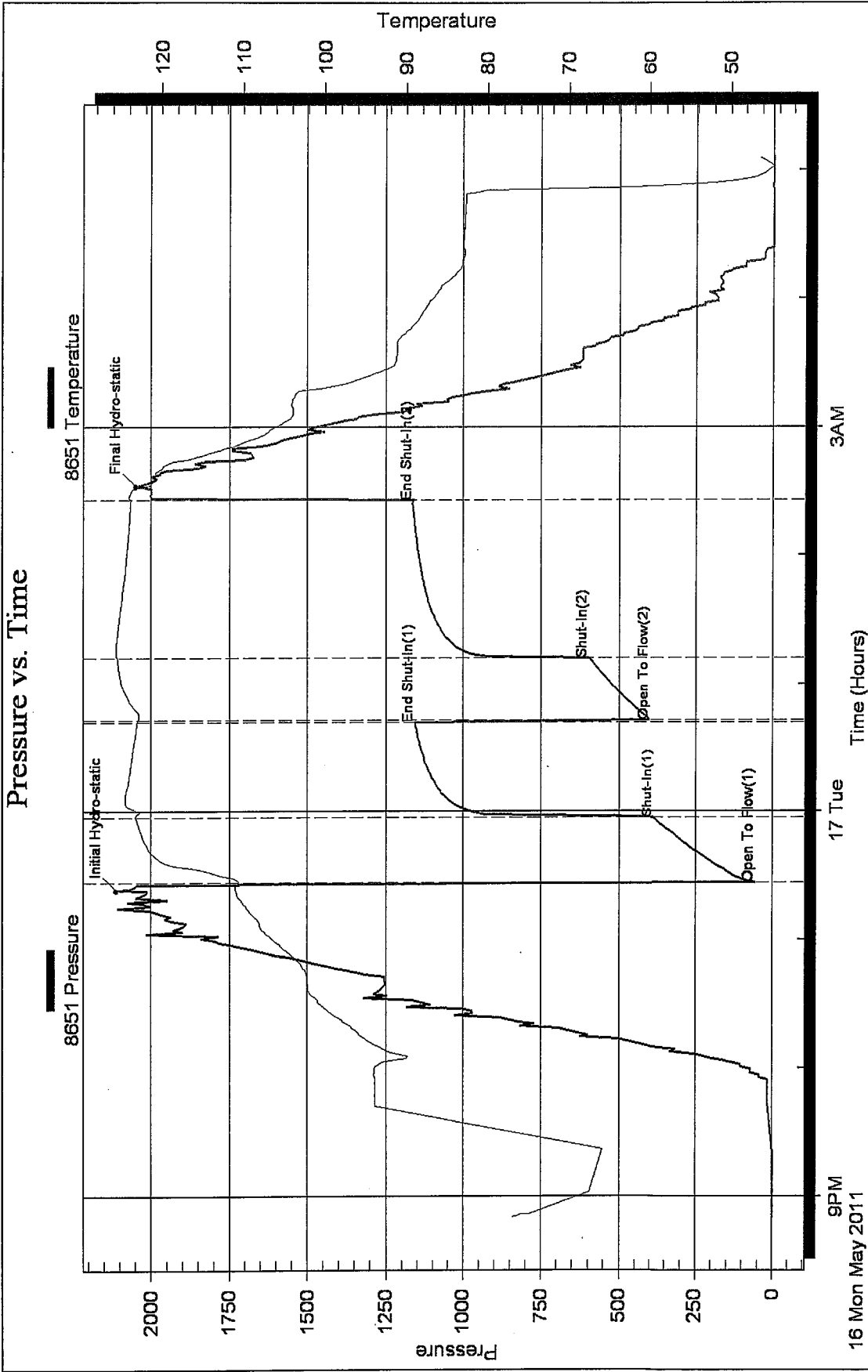
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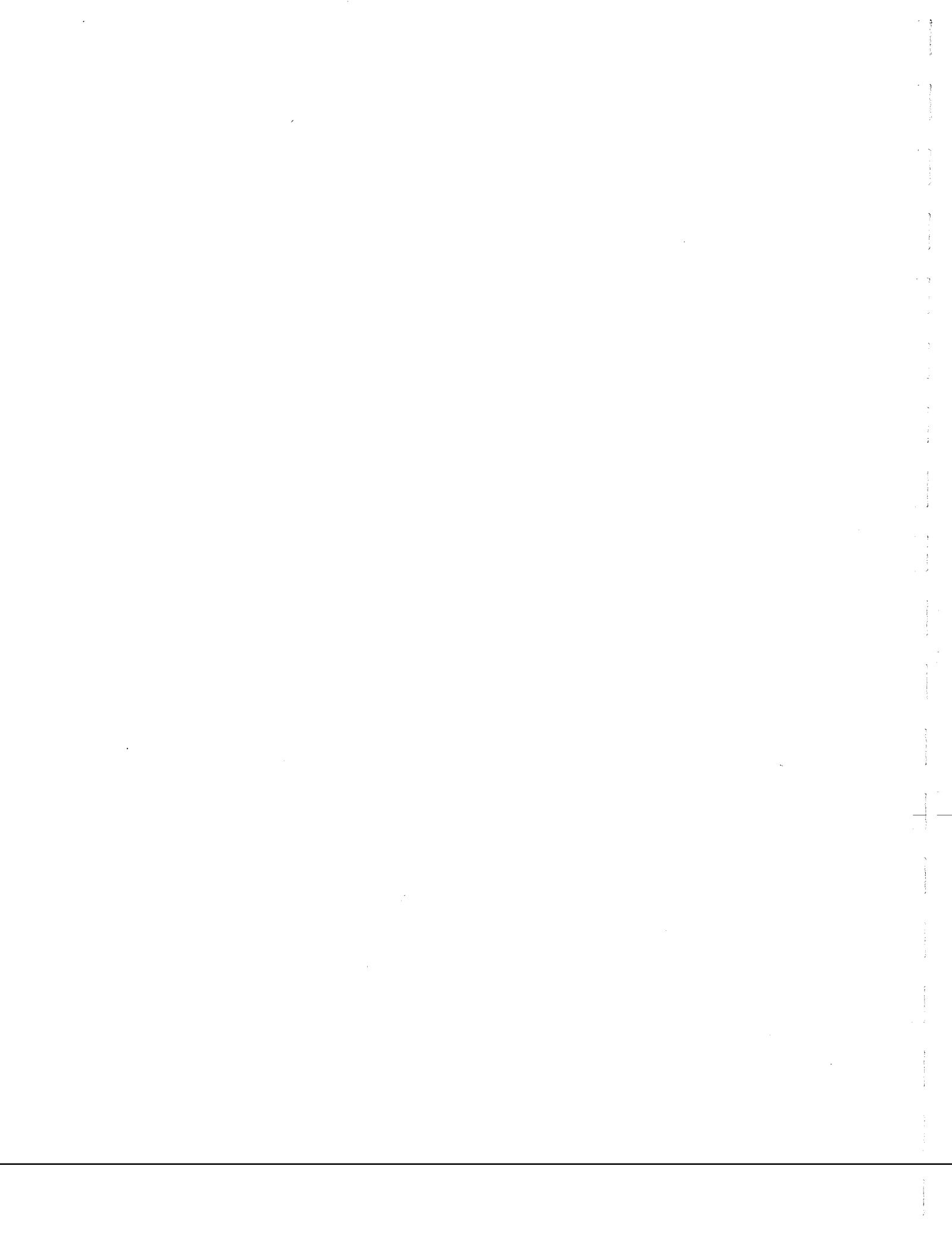
Outside Credo Petroleum Corporation

22 10s 35w Thomas KS

DST Test Number: 1

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

22 10s 35w Thomas KS

Hartzfeld 1-22

Start Date: 2011.05.17 @ 21:25:00

End Date: 2011.05.18 @ 05:24:00

Job Ticket #: 040809 DST #: 2

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040809

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.05.17 @ 21:25:00

GENERAL INFORMATION:

Formation: LKC-EJ

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:58:00

Time Test Ended: 05:24:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: 4242.00 ft (KB) To 4398.00 ft (KB) (TVD)

Reference Elevations: 3287.00 ft (KB)

Total Depth: 4398.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches-Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8651

Outside

Press@RunDepth: 402.37 psig @ 4243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.17 End Date: 2011.05.18

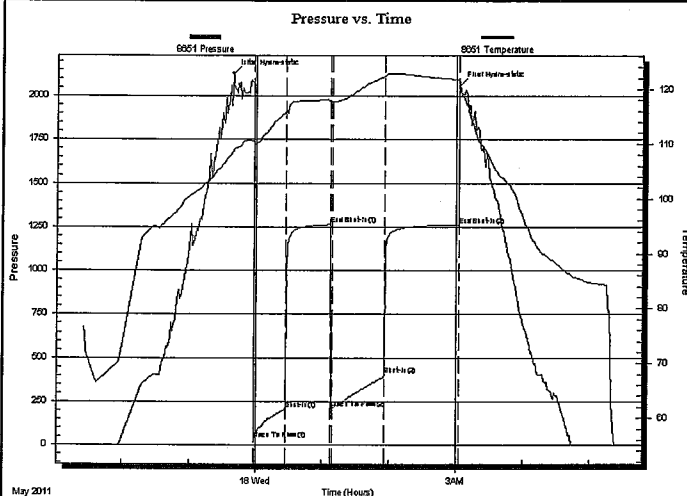
Last Calb.: 2011.05.18

Start Time: 21:25:05 End Time: 05:23:59

Time On Btrn: 2011.05.17 @ 23:39:00

Time Off Btrn: 2011.05.18 @ 03:03:00

TEST COMMENT: IF: Fair blow, Built to BOB in 12 mins.
IS: No blow back over 45 mins.
FF: Fair blow, Built to BOB in 12 mins.
FSI: No blow back over 60 mins.



PRESSURE SUMMARY

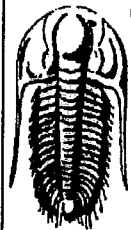
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2127.89	108.75	Initial Hydro-static
19	35.03	109.79	Open To Flow (1)
48	208.67	115.89	Shut-In(1)
89	1263.27	117.92	End Shut-In(1)
90	209.80	117.67	Open To Flow (2)
137	402.37	122.32	Shut-In(2)
203	1262.59	121.74	End Shut-In(2)
204	2059.43	121.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
338.00	mcw -5% m95%w	3.65
248.00	mcw -20% m80%w	3.48
186.00	w cm5%w 95% m	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040809

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.05.17 @ 21:25:00

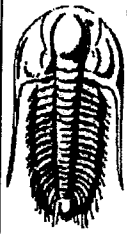
Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4242.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	156.00 ft			
Tool Length:	184.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4219.00	
Hydraulic tool	5.00			4224.00	
Jars	5.00			4229.00	
Safety Joint	3.00			4232.00	
Packer	5.00			4237.00	28.00 Bottom Of Top Packer
Packer	5.00			4242.00	
Stubb	1.00			4243.00	
Recorder	0.00	6752	Inside	4243.00	
Recorder	0.00	8651	Outside	4243.00	
Perforations	4.00			4247.00	
Change Over Sub	1.00			4248.00	
Blank Spacing	124.00			4372.00	
Change Over Sub	1.00			4373.00	
Perforations	22.00			4395.00	
Bullnose	3.00			4398.00	156.00 Bottom Packers & Anchor

Total Tool Length: 184.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040809

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.05.17 @ 21:25:00

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:

46000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.20 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
338.00	mcw -5% m 95% w	3.648
248.00	mcw -20% m 80% w	3.479
186.00	w cm 5% w 95% m	2.609

Total Length: 772.00 ft

Total Volume: 9.736 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

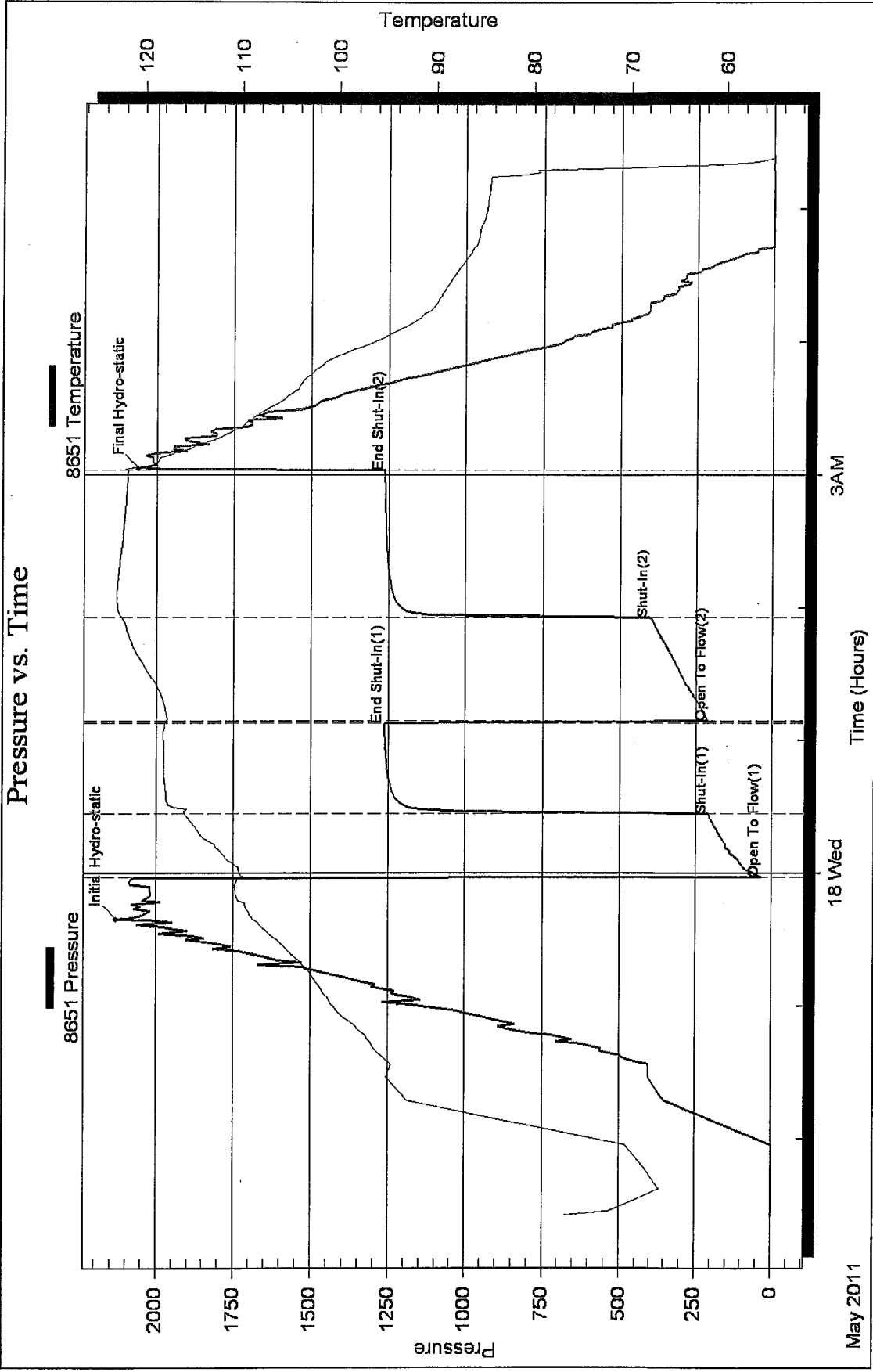
Recovery Comments:

Serial #: 8651

Outside Credo Petroleum Corporation

22 10s 35w Thomas KS

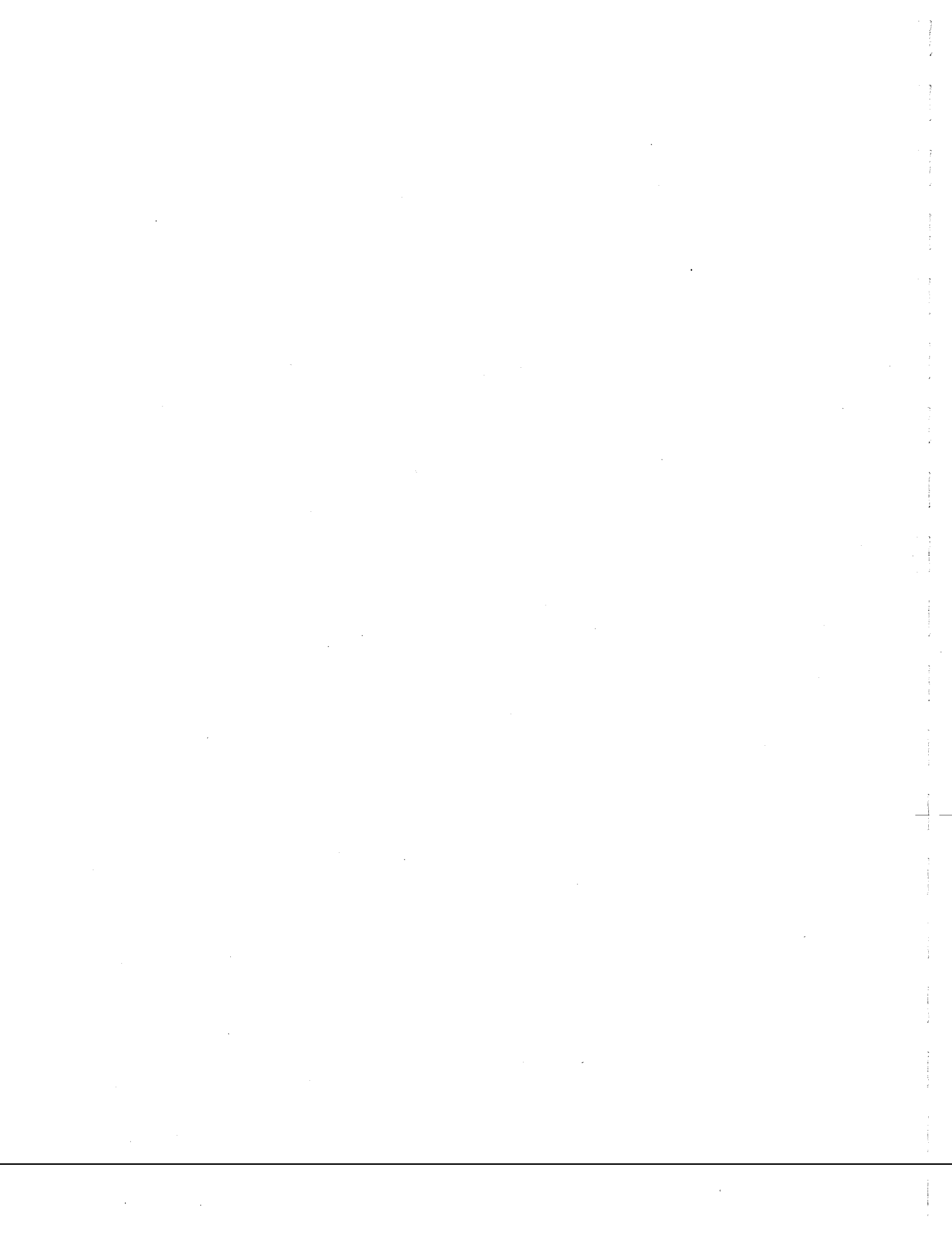
DST Test Number: 2

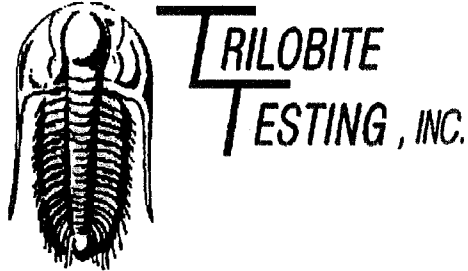


Trilobite Testing, Inc

Ref. No: 040809

Printed: 2011.06.09 @ 16:29:45 Page 5





DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

22 10s 35w Thomas KS

Hartzfeld 1-22

Start Date: 2011.05.18 @ 20:20:00

End Date: 2011.05.19 @ 03:18:00

Job Ticket #: 040810 DST#: 3

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040810 DST#: 3

ATTN: Bruce Ard

Test Start: 2011.05.18 @ 20:20:00

GENERAL INFORMATION:

Formation: **LKC,K- Marm.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:26:00

Time Test Ended: 03:18:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **4398.00 ft (KB) To 4495.00 ft (KB) (TVD)**

Total Depth: 4495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3287.00 ft (KB)

3282.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8651

Outside

Press@RunDepth: 180.09 psig @ 4399.00 ft (KB)

Start Date: 2011.05.18

End Date: 2011.05.19

Capacity: 8000.00 psig

Last Calib.: 2011.05.19

Start Time: 20:20:05

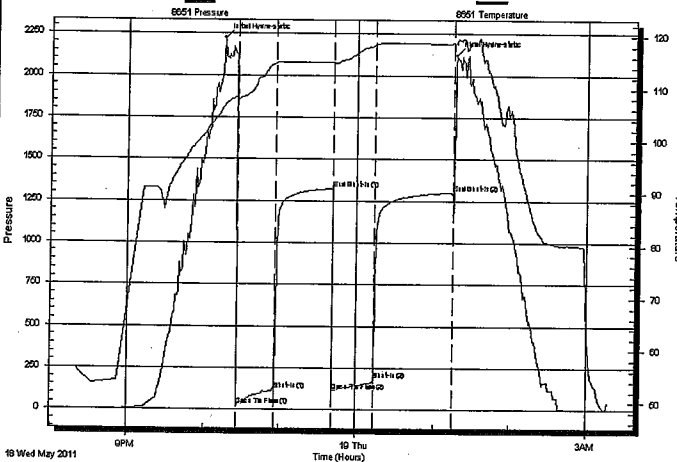
End Time: 03:17:59

Time On Btm: 2011.05.18 @ 22:15:30

Time Off Btm: 2011.05.19 @ 01:17:00

TEST COMMENT: IF: Weak blow, Built to 7 in. over 30 mins.
IS: Weak blow back after 15 mins. Died in 40 mins.
FF: Weak blow, Built to 7 in. over 30 mins.
FSI: No blow back over 60 mins.

Pressure vs. Time



PRESSURE SUMMARY

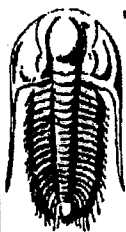
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.25	106.76	Initial Hydro-static
11	23.23	107.70	Open To Flow (1)
41	115.08	114.85	Shut-In(1)
86	1323.31	115.08	End Shut-In(1)
86	113.06	114.64	Open To Flow (2)
119	180.09	118.34	Shut-In(2)
180	1298.89	118.70	End Shut-In(2)
182	2124.22	118.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	w cm-40%w 60% m	0.59
120.00	w cm-25%w 75% m	1.68
60.00	w cm-5%w 95% m	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040810 **DST#: 3**

ATTN: Bruce Ard

Test Start: 2011.05.18 @ 20:20:00

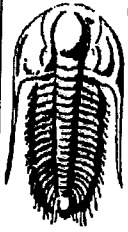
Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		<u>Total Volume:</u>	<u>60.29 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4398.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4375.00	
Hydraulic tool	5.00			4380.00	
Jars	5.00			4385.00	
Safety Joint	3.00			4388.00	
Packer	5.00			4393.00	28.00 Bottom Of Top Packer
Packer	5.00			4398.00	
Stubb	1.00			4399.00	
Recorder	0.00	6752	Inside	4399.00	
Recorder	0.00	8651	Outside	4399.00	
Perforations	4.00			4403.00	
Change Over Sub	1.00			4404.00	
Blank Spacing	61.00			4465.00	
Change Over Sub	1.00			4466.00	
Perforations	25.00			4491.00	
Bullnose	3.00			4494.00	96.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040810

DST#: 3

ATTN: Bruce Ard

Test Start: 2011.05.18 @ 20:20:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 58000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	w cm-40%w 60%m	0.590
120.00	w cm-25%w 75%m	1.683
60.00	w cm-5%w 95%m	0.842

Total Length: 300.00 ft

Total Volume: 3.115 bbl

Num Fluid Samples: 0

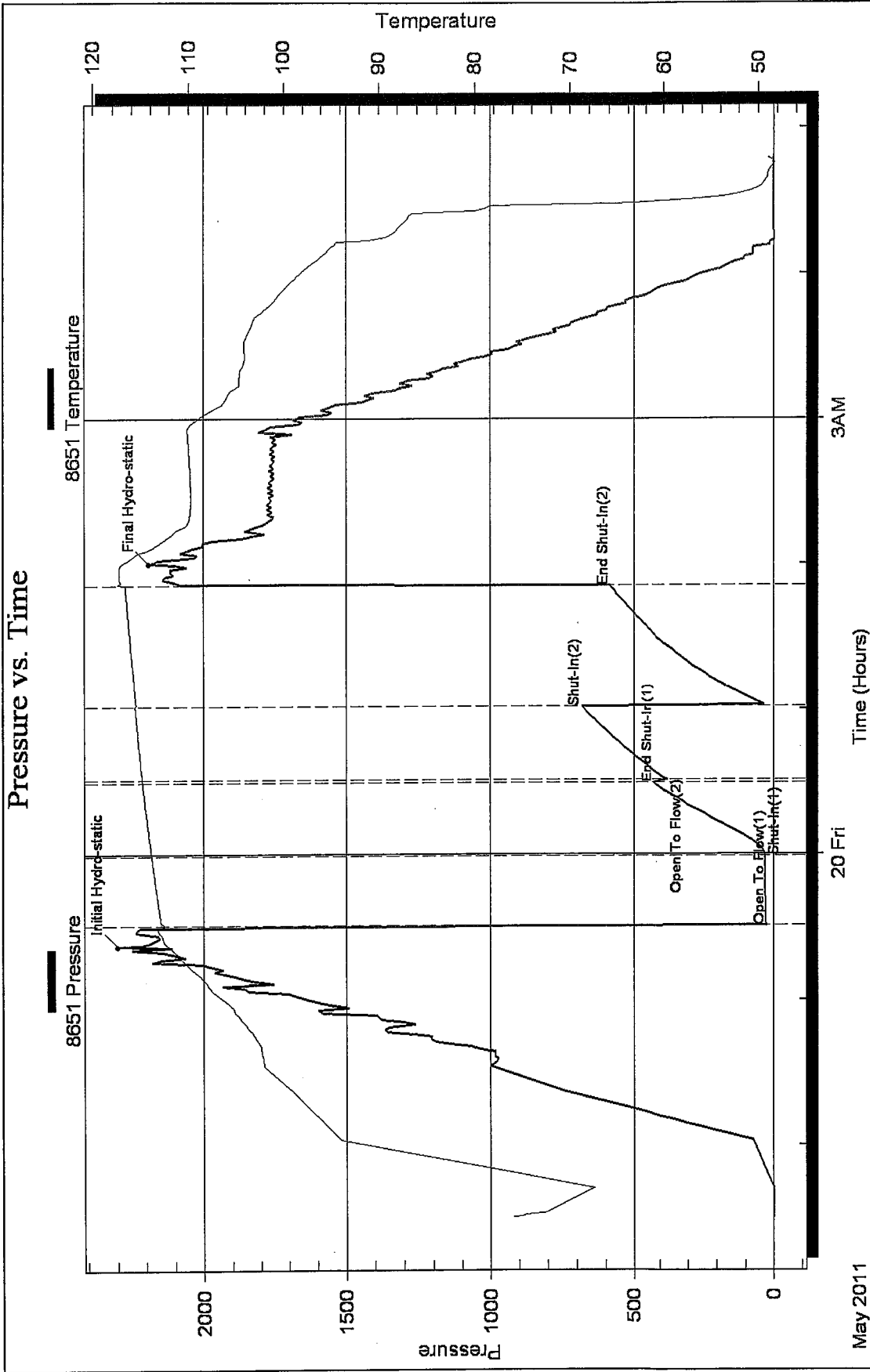
Num Gas Bombs: 0

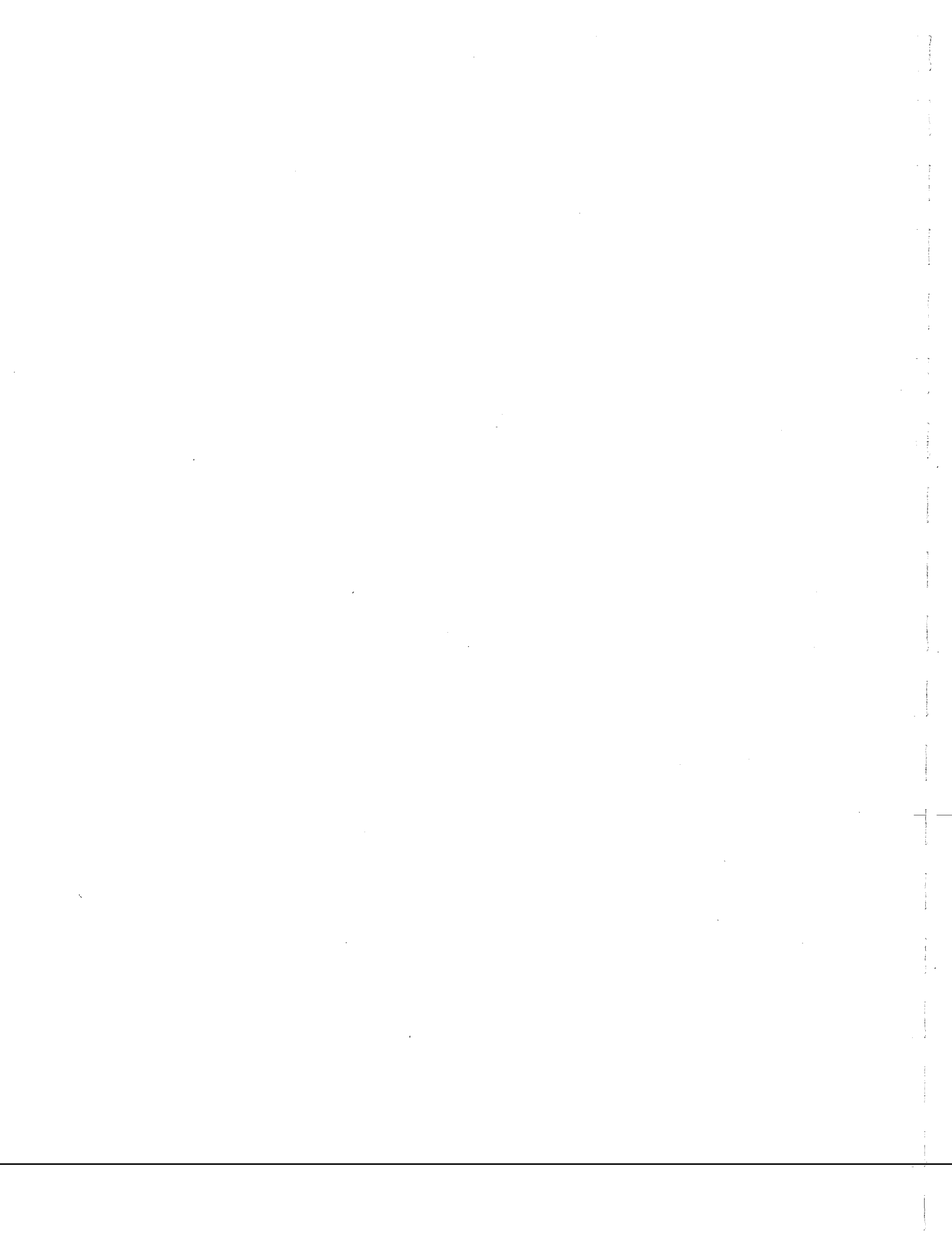
Serial #:

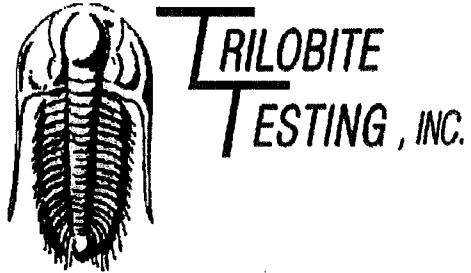
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

22 10s 35w Thomas KS

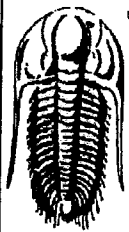
Hartzfeld 1-22

Start Date: 2011.05.19 @ 21:30:00

End Date: 2011.05.20 @ 04:48:00

Job Ticket #: 040811 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

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040811 **DST#: 4**

ATTN: Bruce Ard

Test Start: 2011.05.19 @ 21:30:00

GENERAL INFORMATION:

Formation: **Marm.-Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:30:30
 Time Test Ended: 04:48:00

Test Type: Conventional Bottom Hole
 Tester: Chuck Kreutzer Jr.
 Unit No: 36

Interval: **4493.00 ft (KB) To 4650.00 ft (KB) (TVD)**
 Total Depth: 4650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3287.00 ft (KB)
 3282.00 ft (CF)
 KB to GR/CF: 5.00 ft

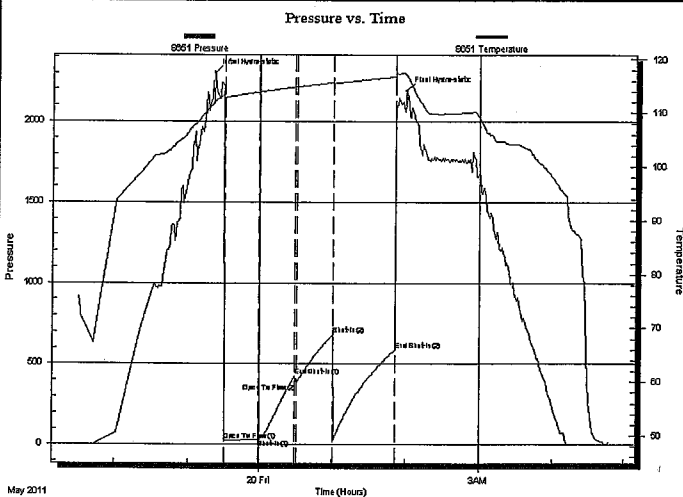
Serial #: 8651

Outside

Press@RunDepth: 680.57 psig @ 4494.00 ft (KB)
 Start Date: 2011.05.19 End Date: 2011.05.20
 Start Time: 21:30:05 End Time: 04:47:59

Capacity: 8000.00 psig
 Last Calib.: 2011.05.20
 Time On Btm: 2011.05.19 @ 23:22:00
 Time Off Btm: 2011.05.20 @ 02:00:00

TEST COMMENT: IF: Weak blow, Died in 15 mins.
 IS: No blow back over 30 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 45 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.42	112.12	Initial Hydro-static
9	24.67	112.36	Open To Flow (1)
37	29.52	113.88	Shut-In(1)
68	425.78	114.83	End Shut-In(1)
69	375.87	114.86	Open To Flow (2)
99	680.57	115.66	Shut-In(2)
149	584.84	116.70	End Shut-In(2)
158	2190.66	116.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud-100%	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040811

DST#: 4

ATTN: Bruce Ard

Test Start: 2011.05.19 @ 21:30:00

Tool Information

Drill Pipe:	Length: 4349.00 ft	Diameter: 3.80 inches	Volume: 61.01 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.60 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4493.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	157.00 ft			
Tool Length:	185.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

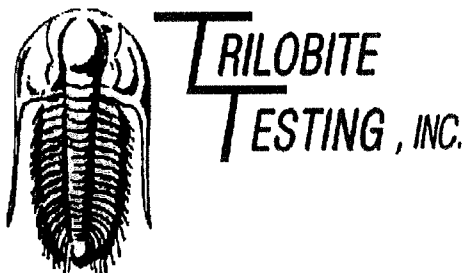
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4470.00	
Hydraulic tool	5.00			4475.00	
Jars	5.00			4480.00	
Safety Joint	3.00			4483.00	
Packer	5.00			4488.00	28.00 Bottom Of Top Packer
Packer	5.00			4493.00	
Stubb	1.00			4494.00	
Recorder	0.00	6752	Inside	4494.00	
Recorder	0.00	8651	Outside	4494.00	
Perforations	4.00			4498.00	
Change Over Sub	1.00			4499.00	
Blank Spacing	124.00			4623.00	
Change Over Sub	1.00			4624.00	
Perforations	23.00			4647.00	
Bullnose	3.00			4650.00	157.00 Bottom Packers & Anchor

Total Tool Length: 185.00

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DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900
Denver, CO 80202

ATTN: Bruce Ard

22 10s 35w Thomas KS

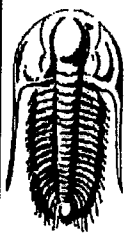
Hartzfeld 1-22

Start Date: 2011.05.20 @ 20:50:00

End Date: 2011.05.21 @ 03:35:30

Job Ticket #: 040812 DST#: 5

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

ATTN: Bruce Ard

Job Ticket: 040812 **DST#: 5**

Test Start: 2011.05.20 @ 20:50:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:30

Time Test Ended: 03:35:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **4724.00 ft (KB) To 4764.00 ft (KB) (TVD)**

Reference Elevations: 3287.00 ft (KB)

Total Depth: 4764.00 ft (KB) (TVD)

3282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8651

Outside

Press@RunDepth: 23.01 psig @ 4725.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.20 End Date: 2011.05.21

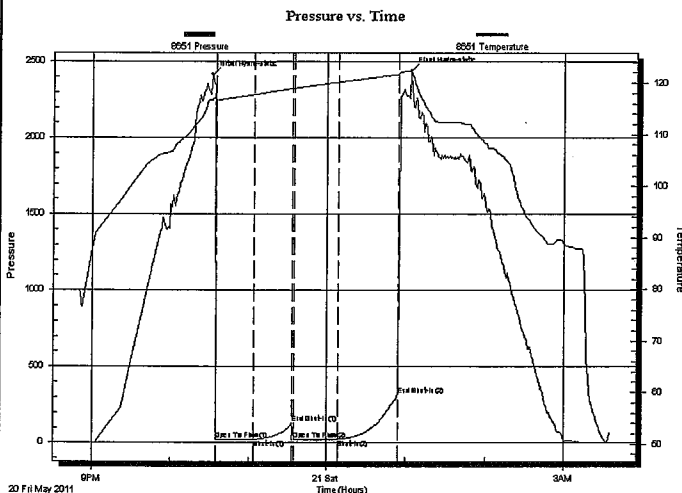
Last Calib.: 2011.05.21

Start Time: 20:50:05 End Time: 03:35:29

Time On Btm: 2011.05.20 @ 22:31:30

Time Off Btm: 2011.05.21 @ 01:03:30

TEST COMMENT: IF: Weak blow, Died in 22 mins.
IS: No blow back over 30 mins.
FF: No blow over 30 mins.
FS: No blow back over 45 mins.



PRESSURE SUMMARY

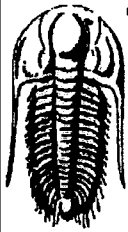
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2414.11	116.68	Initial Hydro-static
3	20.21	116.58	Open To Flow (1)
33	21.38	117.73	Shut-In(1)
62	126.31	118.94	End Shut-In(1)
63	21.13	118.94	Open To Flow (2)
97	23.01	120.15	Shut-In(2)
143	315.50	121.63	End Shut-In(2)
152	2439.38	122.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040812 DST#: 5

ATTN: Bruce Ard

Test Start: 2011.05.20 @ 20:50:00

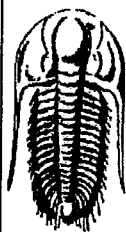
Tool Information

Drill Pipe:	Length: 4596.00 ft	Diameter: 3.80 inches	Volume: 64.47 bbl	Tool Weight: 2600.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.06 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4724.00 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
Shut In Tool	5.00			4701.00	
Hydraulic tool	5.00			4706.00	
Jars	5.00			4711.00	
Safety Joint	3.00			4714.00	
Packer	5.00			4719.00	28.00 Bottom Of Top Packer
Packer	5.00			4724.00	
Stubb	1.00			4725.00	
Recorder	0.00	6752	Inside	4725.00	
Recorder	0.00	8651	Outside	4725.00	
Perforations	4.00			4729.00	
Perforations	32.00			4761.00	
Bullnose	3.00			4764.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

Hartzfeld 1-22

1801 Broadway #900
Denver, CO 80202

22 10s 35w Thomas KS

Job Ticket: 040812 DST#: 5

ATTN: Bruce Ard

Test Start: 2011.05.20 @ 20:50:00

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: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud	0.039

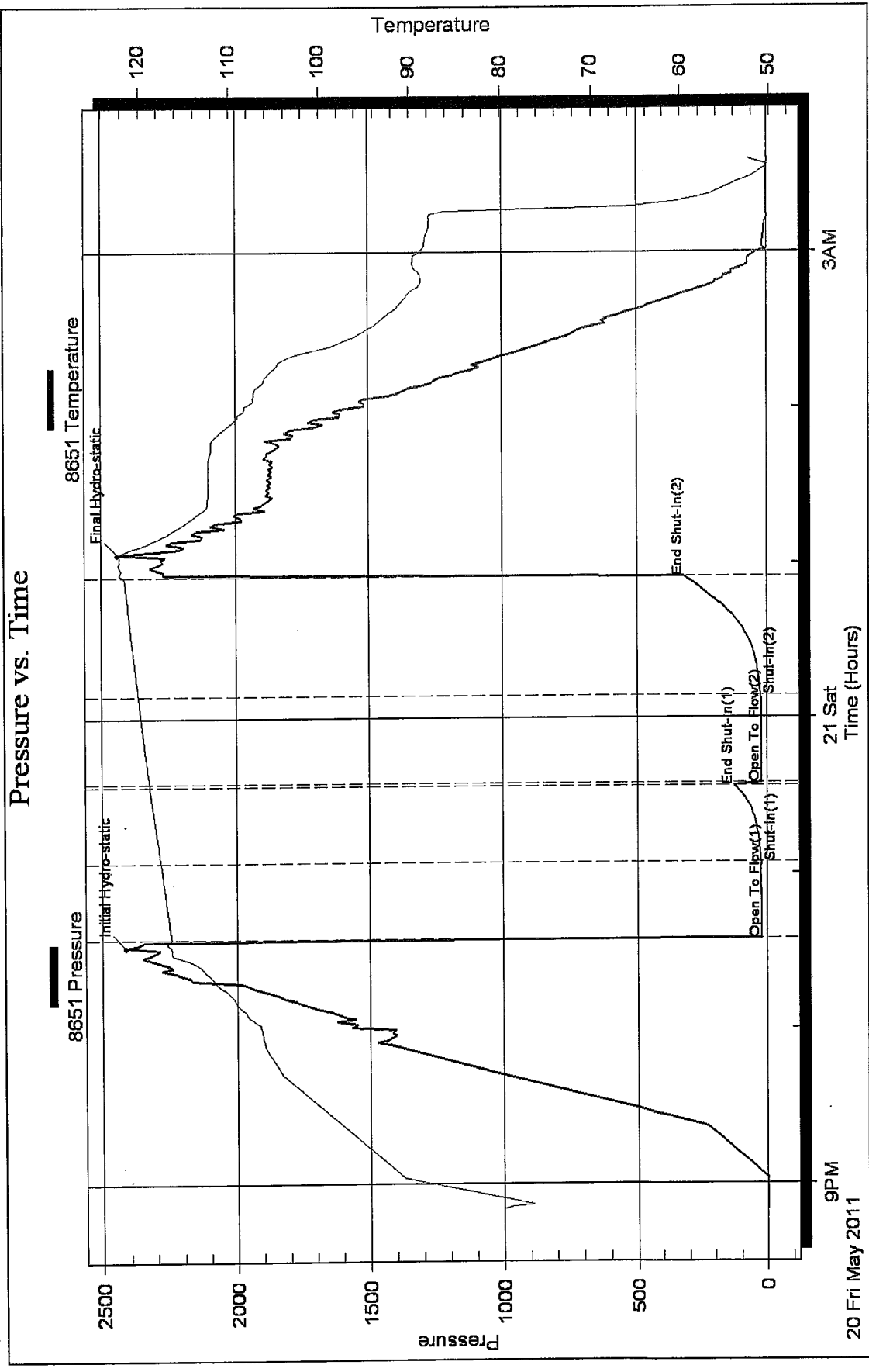
Total Length: 8.00 ft Total Volume: 0.039 bbl

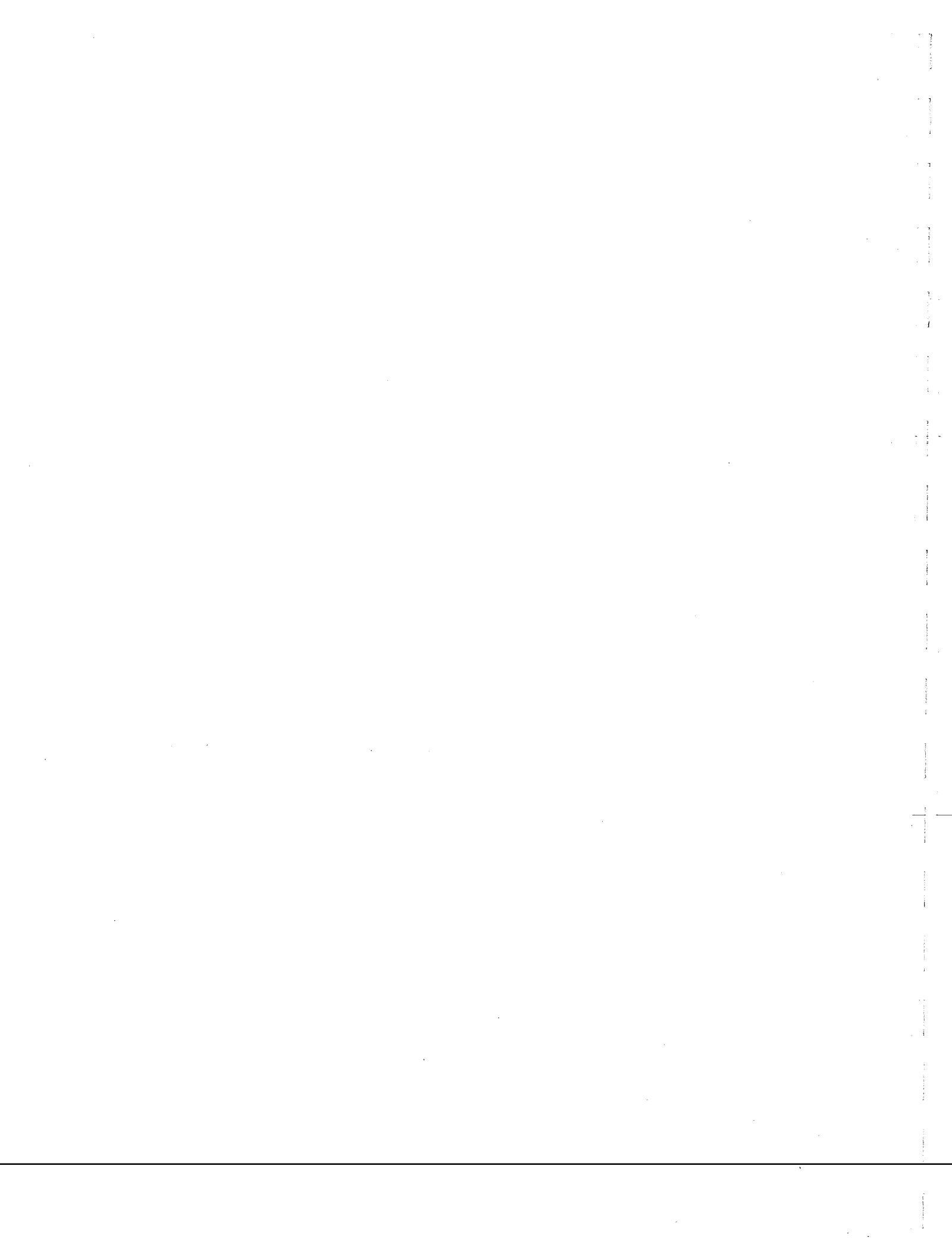
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





ALLIED CEMENTING CO., LLC.

Federal Tax I.D.# 20-5975804 043321

REMIT TO PO. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Oakley

DATE <u>5-22-11</u>	SEC <u>22</u>	TWP <u>12S</u>	RANGE <u>35W</u>	CALLED OUT	ON LOCATION	JOB START COUNTY <u>1100</u>	JOB FINISH STATE <u>12100</u>
LEASE <u>Hartzfeld</u>	WELL # <u>1-22</u>	LOCATION <u>winona Okm 1w</u>				COUNTY <u>Thomas</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				LOCATION <u>5 1/2 TD</u>			

CONTRACTOR W + W Drilling Rig 2 OWNER same

TYPE OF JOB P 28 T.D. 4930'

HOLE SIZE _____ DEPTH _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2290'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

431 HELPER Darrin

BULK TRUCK DRIVER Andrew

404 DRIVER Andrew

BULK TRUCK DRIVER Ethan

_____ DRIVER _____

REMARKS:

25 sks @ 2290'

100 sks @ 1280'

40 sks @ 310'

40 sks @ 40'

30 sks 1st hole

15 sks mouse hole

Thank you

CHARGE TO: Crede Petroleum corp

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cement 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 Justin Hawn

SIGNATURE [Signature]

CEMENT

AMOUNT ORDERED 220 sks 4940 4890L

4 Flo-seal

COMMON	<u>132 sks</u>	@	<u>16.25</u>	=	<u>2145.00</u>
POZMIX	<u>88 sks</u>	@	<u>8.50</u>	=	<u>748.00</u>
GEL	<u>7 sks</u>	@	<u>31.25</u>	=	<u>198.75</u>
CHLORIDE		@		=	
ASC		@		=	

Flo-seal 55# @ 3.20 = 178.50

_____ @ _____ = _____

_____ @ _____ = _____

_____ @ _____ = _____

_____ @ _____ = _____

HANDLING 238 sks @ 2.25 = 533.00

MILEAGE 14 sk/mile @ _____ = 252.90

TOTAL 4457.65

SERVICE

DEPTH OF JOB	<u>2250'</u>	@		=	
PUMP TRUCK CHARGE		@		=	<u>2185.00</u>
EXTRA FOOTAGE		@		=	
MILEAGE	<u>30m/tesx2</u>	@	<u>7.00</u>	=	<u>420.00</u>
MANFOLD		@		=	
Light vehicle		@	<u>4.00</u>	=	<u>340.00</u>

PLUG & FLOAT EQUIPMENT

8 5/8

1 Dry hole plug @ _____ = 92.00

_____ @ _____ = _____

_____ @ _____ = _____

_____ @ _____ = _____

TOTAL 92.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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

SERVICE POINT:
 Ogilvey

DATE <u>5-12-11</u>	SEC <u>22</u>	TWP <u>10</u>	RANGE <u>35</u>	LOCATED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Hartzfeld</u>	WELL # <u>1-22</u>	LOCATION <u>winona gkn bar</u>	CALLED OUT	JOB START	COUNTY <u>phomas</u>	STATE <u>ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>	CITY <u>sinho</u>		JOB START		COUNTY <u>phomas</u>		STATE <u>ks</u>

CONTRACTOR wfw Rig 2 OWNER same

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>254'</u>	CEMENT AMOUNT ORDERED <u>170 sks com</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>260'</u>	<u>Spec 2 1/2 gpl</u>
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	

TOOL	DEPTH	COMMON <u>120 sks</u>	@ <u>16.25</u>	<u>2622.50</u>
PRES. MAX	MINIMUM	POZMIX	@	
MEAS. LINE	SHOE JOINT	GEL <u>3 sks</u>	@ <u>21.25</u>	<u>63.75</u>

CEMENT LEFT IN CSG. <u>15</u>	DISPLACEMENT <u>1576 BBL</u>	CHLORIDE <u>6 sks</u>	@ <u>58.20</u>	<u>349.20</u>
PERFS.	EQUIPMENT	ASC	@	

PUMP TRUCK # <u>423-287</u>	CEMENTER <u>Andrea</u>	HANDLING <u>139 sk/</u>	@ <u>2.25</u>	<u>402.75</u>
BULK TRUCK # <u>396</u>	HELPER <u>Jerry</u>	MILEAGE <u>118.56/mile</u>	@	<u>590.70</u>
BULK TRUCK #	DRIVER <u>Larrene Eftan</u>	TOTAL <u>4168.90</u>		
BULK TRUCK #	DRIVER			

REMARKS:

SERVICE

<u>Cement Dig circulate</u>	DEPTH OF JOB <u>260</u>	DEPTH OF JOB	<u>260</u>	@	<u>1185.00</u>
	PUMP TRUCK CHARGE	PUMP TRUCK CHARGE		@	
	EXTRA FOOTAGE	EXTRA FOOTAGE		@	
	MILEAGE <u>30 miles x 2</u>	MILEAGE	<u>3.00</u>	@	<u>420.00</u>
	MANIFOLD <u>head</u>	MANIFOLD		@	<u>200.00</u>
	Light vehicle	Light vehicle		@	<u>4.00</u>
	TOTAL	TOTAL			<u>1985.00</u>

thank you

CHARGE TO: Credo Petroleum TOTAL 1985.00

PLUG & FLOAT EQUIPMENT

CITY _____ STATE _____ ZIP _____

DEPTH OF JOB _____ @ _____

PUMP TRUCK CHARGE _____ @ _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

Light vehicle _____ @ _____

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 Jay Schweschen SALES TAX (If Any) _____

SIGNATURE Jay Schweschen TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 30, 2011

JACK RENFRO
Credo Petroleum Corporation
1801 BROADWAY # 900
DENVER, CO 80202-3858

Re: ACO1
API 15-193-20796-00-00
HARTZFELD 1-22
NW/4 Sec.22-10S-35W
Thomas County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
JACK RENFRO