



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090756
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1090756

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

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

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Credo Petroleum Corporation
Well Name	Nancy 1-22
Doc ID	1090756

Tops

Name	Top	Datum
Anhydrite	2206	610
Topeka	3706	-890
Lansing	3990	-1174
BKC	4331	-1515
Marmaton	4357	-1541
Pawnee	4441	-1625
Lower Cherokee	4559	-1743
Mississippian	4588	-1772

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
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 15, 2012

Jack Renfro
Credo Petroleum Corporation
1801 BROADWAY # 900
DENVER, CO 80202-3858

Re: ACO1
API 15-101-22388-00-00
Nancy 1-22
NW/4 Sec.22-17S-29W
Lane 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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48320

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.06.29 @ 23:25:00

GENERAL INFORMATION:

Formation: **Kansas City "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:54:15

Time Test Ended: 08:21:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4135.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 2816.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 31.38 psig @ 4136.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.29

End Date:

2012.06.30

Last Calib.: 2012.06.30

Start Time: 23:25:15

End Time:

08:21:45

Time On Btm: 2012.06.30 @ 01:53:00

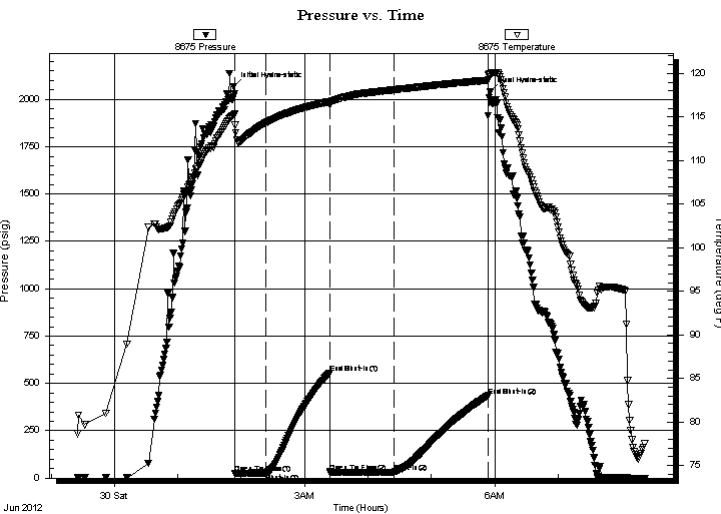
Time Off Btm: 2012.06.30 @ 05:55:15

TEST COMMENT: Built to 1/2" blow, Died to 1/4" blow

No return blow

No blow

No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.72	115.30	Initial Hydro-static
2	23.73	114.06	Open To Flow (1)
31	28.03	114.35	Shut-In(1)
91	555.55	116.76	End Shut-In(1)
91	28.83	116.60	Open To Flow (2)
152	31.38	118.12	Shut-In(2)
241	435.47	119.22	End Shut-In(2)
243	2039.24	119.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% Mud	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48320

DST#: 1

ATTN: Bruce Ard

Test Start: 2012.06.29 @ 23:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100% Mud	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

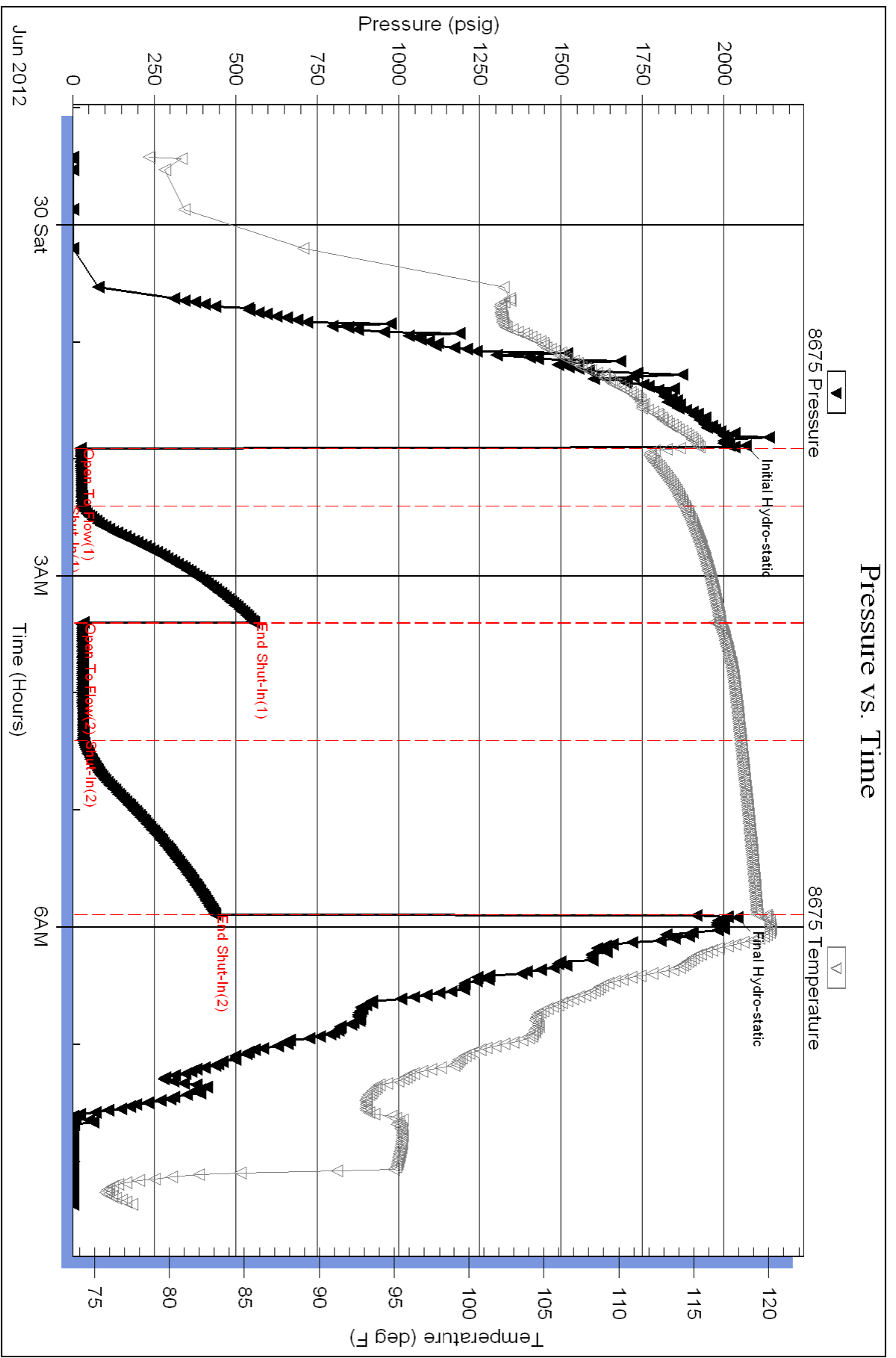
Serial #: 8675

Inside

Creo Petroleum Corporation

Nancy 1-22

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48321

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.06.30 @ 19:50:00

GENERAL INFORMATION:

Formation: **KC "L - Marmaton"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:30

Time Test Ended: 04:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4284.00 ft (KB) To 4393.00 ft (KB) (TVD)

Reference Elevations: 2816.00 ft (KB)

Total Depth: 4393.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 28.77 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.30

End Date:

2012.07.01

Last Calib.: 2012.07.01

Start Time: 19:50:15

End Time:

04:08:00

Time On Btm: 2012.06.30 @ 22:29:30

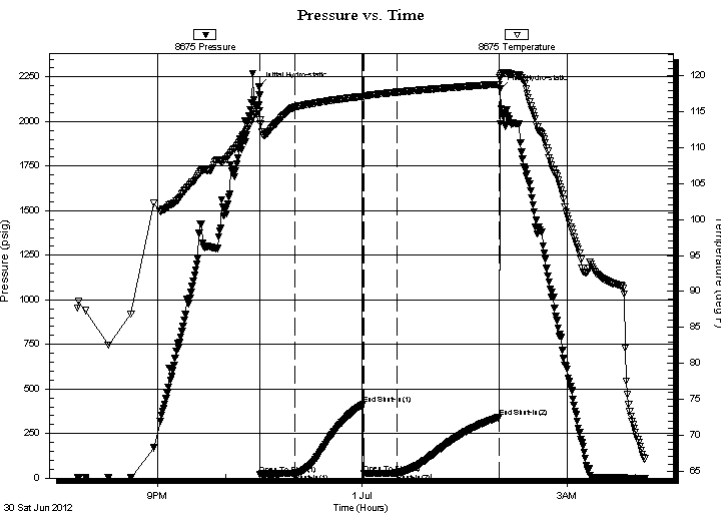
Time Off Btm: 2012.07.01 @ 02:01:00

TEST COMMENT: Built to 1/2" blow

No return blow

No blow

No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.94	115.18	Initial Hydro-static
1	21.49	113.82	Open To Flow (1)
32	26.17	115.64	Shut-In(1)
92	415.15	117.14	End Shut-In(1)
92	26.20	116.99	Open To Flow (2)
121	28.77	117.72	Shut-In(2)
211	340.82	118.81	End Shut-In(2)
212	2180.78	119.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w with few oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48321

DST#: 2

ATTN: Bruce Ard

Test Start: 2012.06.30 @ 19:50:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud with few oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

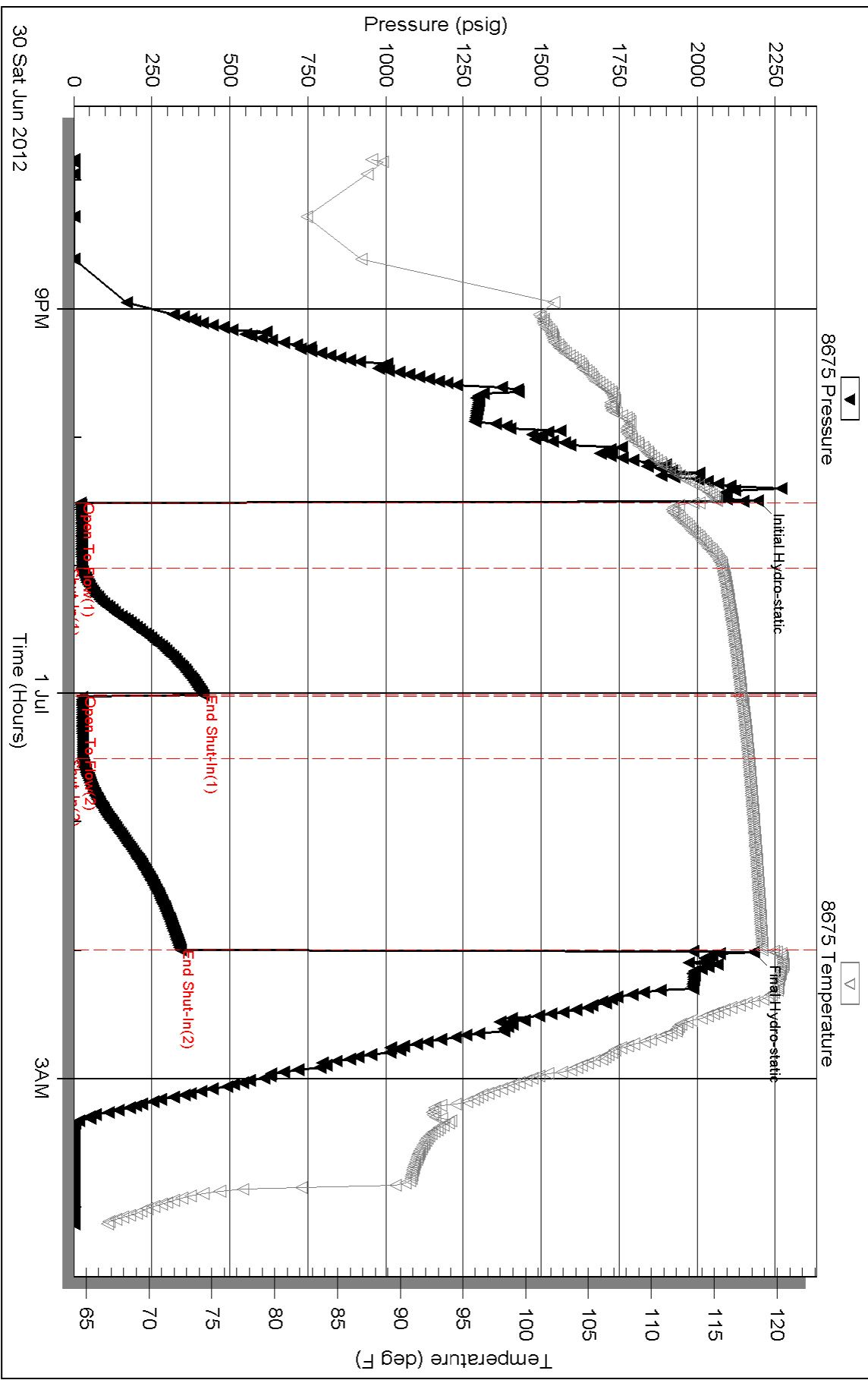
Inside

Crede Petroleum Corporation

Nancy 1-22

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48321

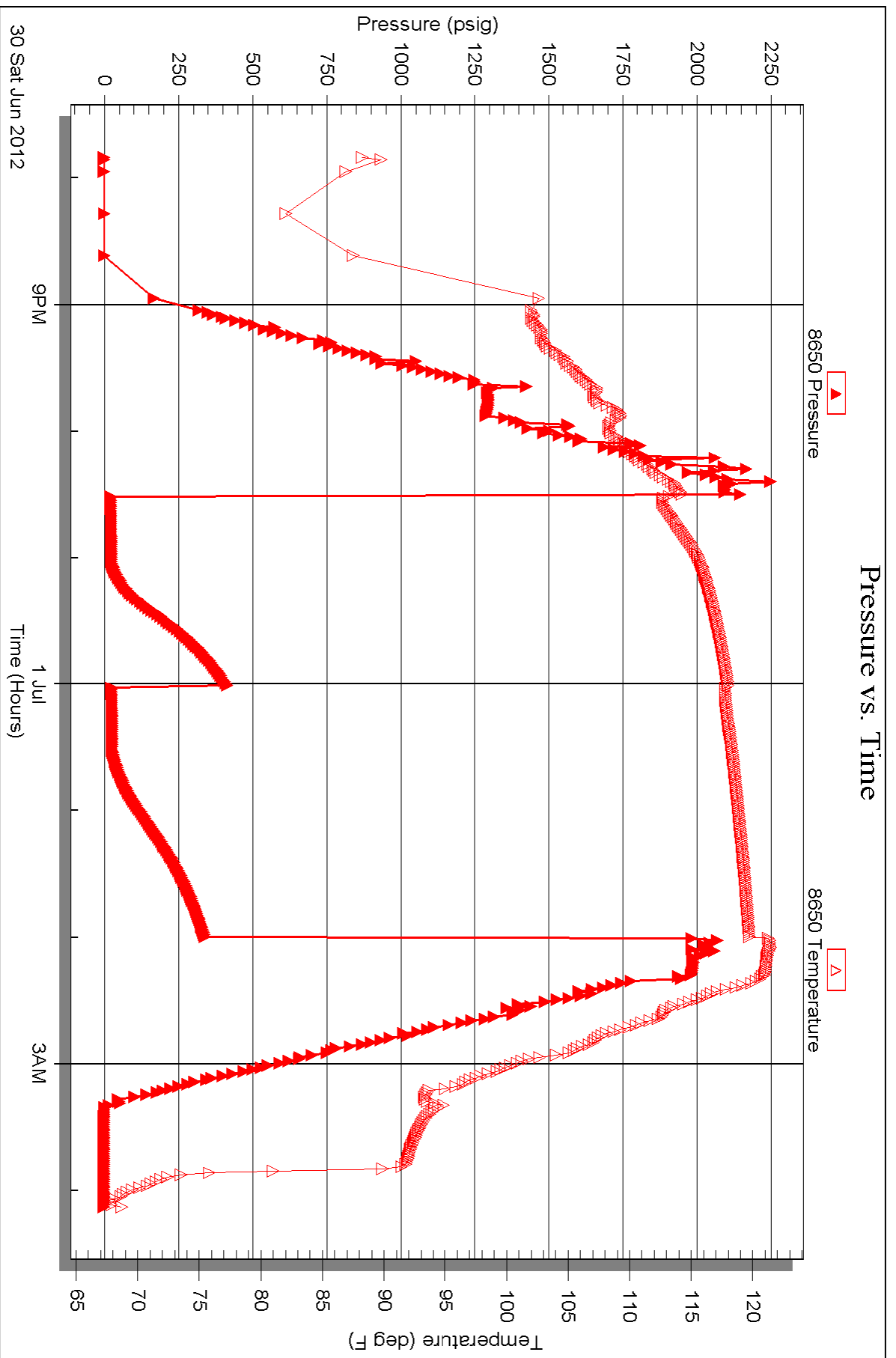
Printed: 2012.07.01 @ 04:39:30

Serial #: 8650

Outside Credo Petroleum Corporation

Nancy 1-22

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48322

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.07.01 @ 17:15:00

GENERAL INFORMATION:

Formation: **Altamont - Fort Scot**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:42:30

Time Test Ended: 01:56:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4391.00 ft (KB) To 4488.00 ft (KB) (TVD)

Reference Elevations: 2816.00 ft (KB)

Total Depth: 4488.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 122.22 psig @ 4392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.01

End Date:

2012.07.02

Last Calib.: 2012.07.02

Start Time: 17:15:15

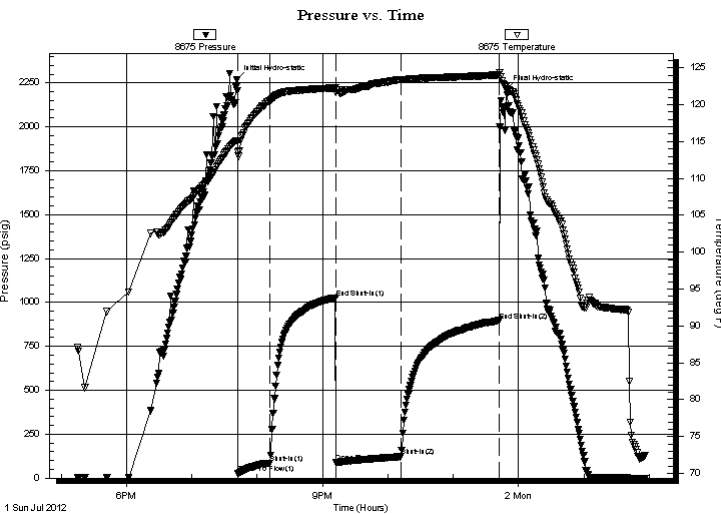
End Time:

01:56:30

Time On Btm: 2012.07.01 @ 19:41:15

Time Off Btm: 2012.07.01 @ 23:48:45

TEST COMMENT: Built to 5 1/4" blow
No return blow
Built to 3 1/4" blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.28	115.14	Initial Hydro-static
2	24.86	113.62	Open To Flow (1)
31	85.54	120.57	Shut-In(1)
91	1027.47	122.26	End Shut-In(1)
91	88.61	121.60	Open To Flow (2)
151	122.22	123.41	Shut-In(2)
241	896.72	124.04	End Shut-In(2)
248	2209.07	122.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	100% Mud with oil scum	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48322

DST#: 3

ATTN: Bruce Ard

Test Start: 2012.07.01 @ 17:15:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	100% Mud with oil scum	1.740

Total Length: 200.00 ft Total Volume: 1.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

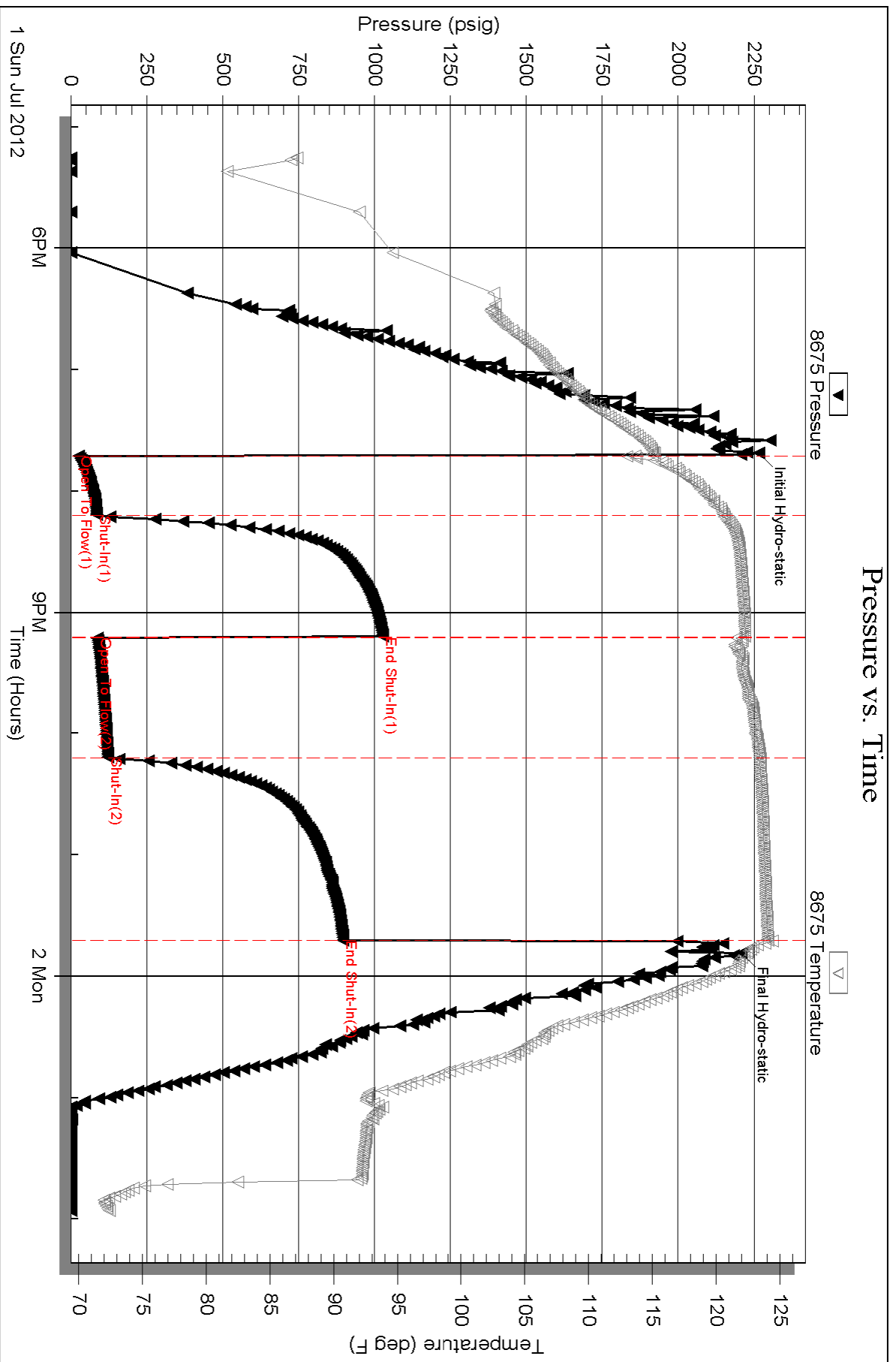
Inside

Crede Petroleum Corporation

Nancy 1-22

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48323

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.07.02 @ 12:00:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:15

Time Test Ended: 19:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4482.00 ft (KB) To 4550.00 ft (KB) (TVD)

Reference Elevations: 2816.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 33.48 psig @ 4483.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.02

End Date:

2012.07.02

Last Calib.: 2012.07.02

Start Time: 12:00:15

End Time:

19:24:00

Time On Btm: 2012.07.02 @ 14:21:45

Time Off Btm: 2012.07.02 @ 17:24:15

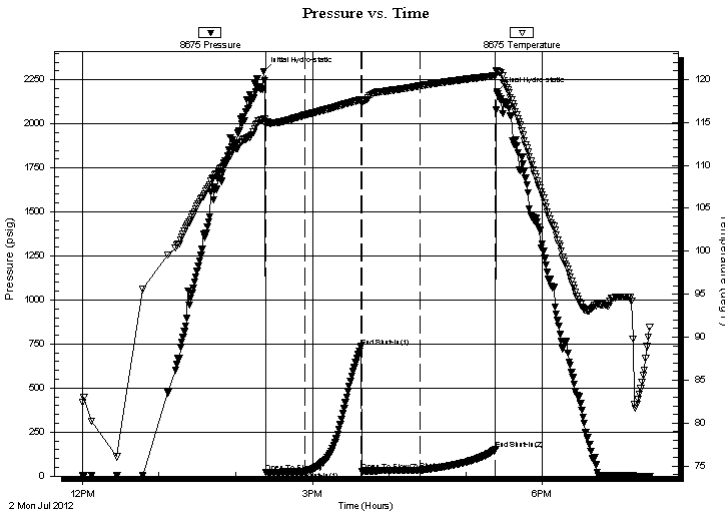
TEST COMMENT: Built to 1/2" blow

No return blow

No blow

No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.47	115.43	Initial Hydro-static
2	19.71	114.81	Open To Flow (1)
33	25.47	115.85	Shut-In(1)
77	735.54	117.65	End Shut-In(1)
77	27.99	117.41	Open To Flow (2)
122	33.48	119.26	Shut-In(2)
182	151.18	120.45	End Shut-In(2)
183	2184.59	121.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud with oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Petroleum Corporation

22-17s-29w Lane Co. KS

1801 Broadway # 900
Denver CO. 80202-3858

Nancy 1-22

Job Ticket: 48323

DST#: 4

ATTN: Bruce Ard

Test Start: 2012.07.02 @ 12:00:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud with oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

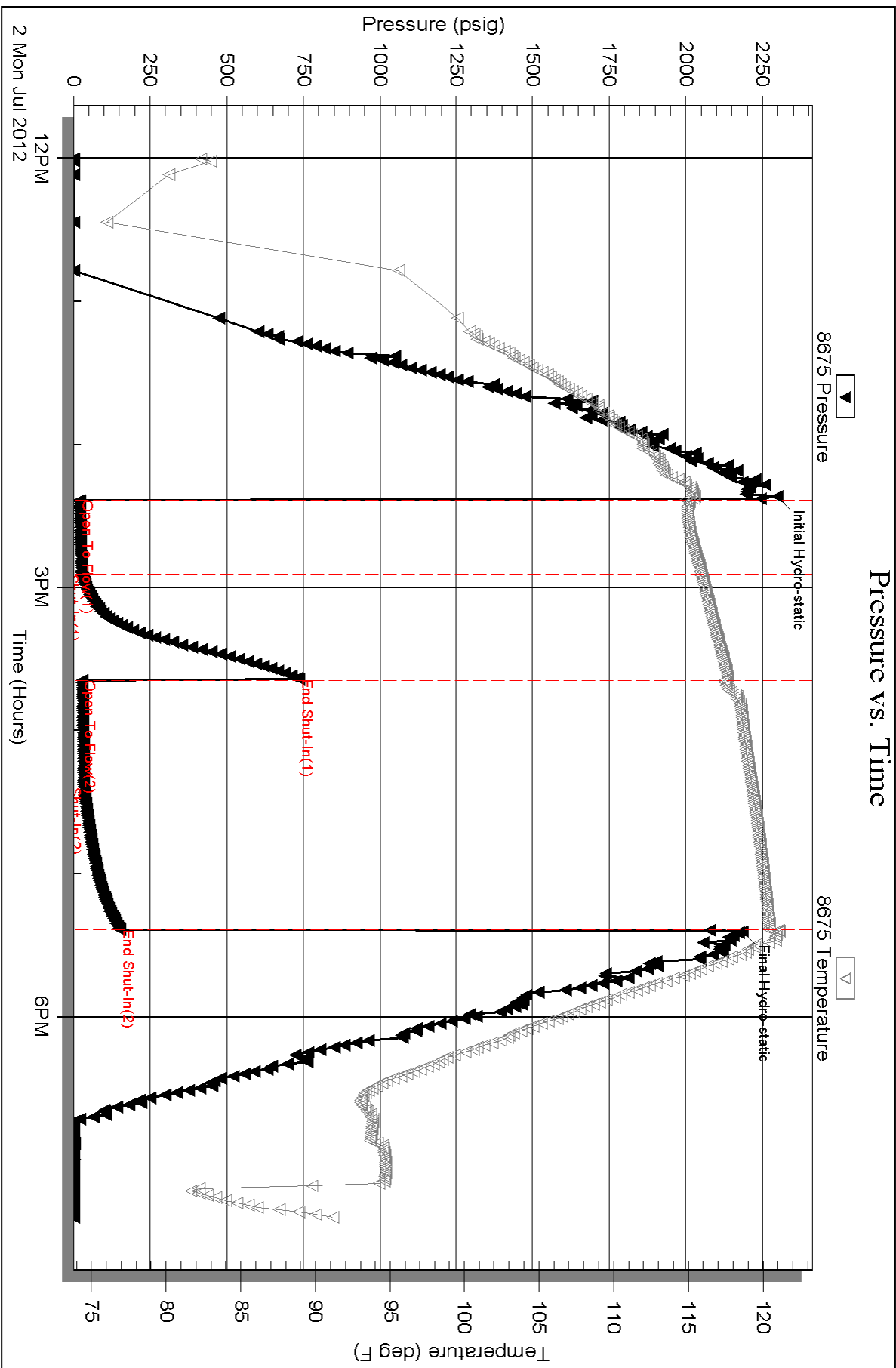
Serial #: 8675

Inside

Crede Petroleum Corporation

Nancy 1-22

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 48323

Printed: 2012.07.03 @ 05:56:32

Serial #: 8650

Outside Credo Petroleum Corporation

Nancy 1-22

DST Test Number: 4

