KGS ✓

15-009-25213-0000

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Credo Pet.**

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

8-19-12 Barton KS

Neeland CPC #1-8

Start Date: 2008.11.05 @ 13:10:29
End Date: 2008.11.05 @ 18:58:29
Job Ticket #: 33540 DST #: 1

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

Credo Pet. Neeland CPC #1-8 8-19-12 Barton KS DST # 1 LKC 2008.11.05

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33540 **DST#: 1**

Test Start: 2008.11.05 @ 13:10:29

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:53:29
Time Test Ended: 18:58:29

Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31

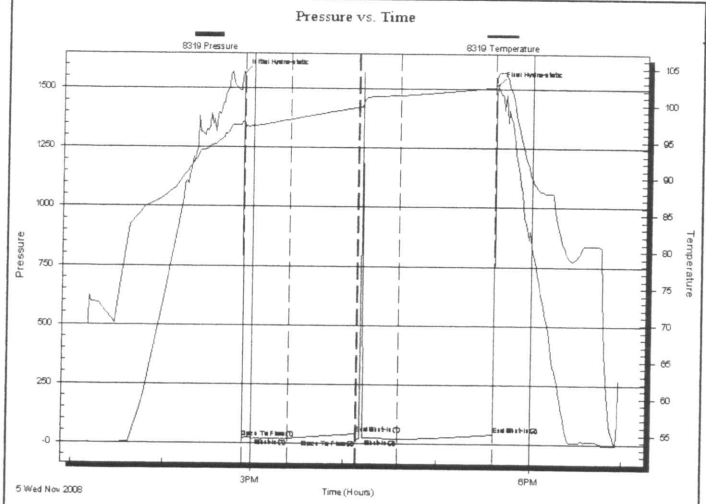
Interval: 3146.00 ft (KB) To 3186.00 ft (KB) (TVD)
Total Depth: 3186.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1858.00 ft (KB)
1851.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8319 **Inside**

Press@RunDepth:	19.86 psig @	3148.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2008.11.05	End Date:	2008.11.05	Last Calib.:	2008.11.05
Start Time:	13:10:34	End Time:	18:58:28	Time On Btm:	2008.11.05 @ 14:52:59
				Time Off Btm:	2008.11.05 @ 17:37:29

TEST COMMENT: IF 1/2" died back to weak surface
FF Weak surface died 1 min flushed tool surge then no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.37	97.42	Initial Hydro-static
1	18.66	96.59	Open To Flow (1)
31	18.69	97.93	Shut-In(1)
75	39.70	99.61	End Shut-In(1)
76	15.45	99.62	Open To Flow (2)
102	19.86	101.29	Shut-In(2)
164	39.20	102.40	End Shut-In(2)
165	1517.23	104.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.17

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33540 **DST#: 1**

Test Start: 2008.11.05 @ 13:10:29

Tool Information

Drill Pipe:	Length:	3136.00 ft	Diameter:	4.21 inches	Volume:	53.99 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:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		42000.00 lb
					Total Volume:	53.99 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	36000.00 lb
Depth to Top Packer:		3146.00 ft						Final	36000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		40.00 ft							
Tool Length:		60.00 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			3127.00		
Shut In Tool	5.00			3132.00		
Hydraulic tool	5.00			3137.00		
Packer	4.00			3141.00	20.00	Bottom Of Top Packer
Packer	5.00			3146.00		
Stubb	1.00			3147.00		
Perforations	1.00			3148.00		
Recorder	0.00	8319	Inside	3148.00		
Recorder	0.00	8369	Inside	3148.00		
Change Over Sub	1.00			3149.00		
Blank Spacing	31.00			3180.00		
Change Over Sub	1.00			3181.00		
Perforations	2.00			3183.00		
Bullnose	3.00			3186.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**60.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33540 **DST#: 1**

Test Start: 2008.11.05 @ 13:10:29

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

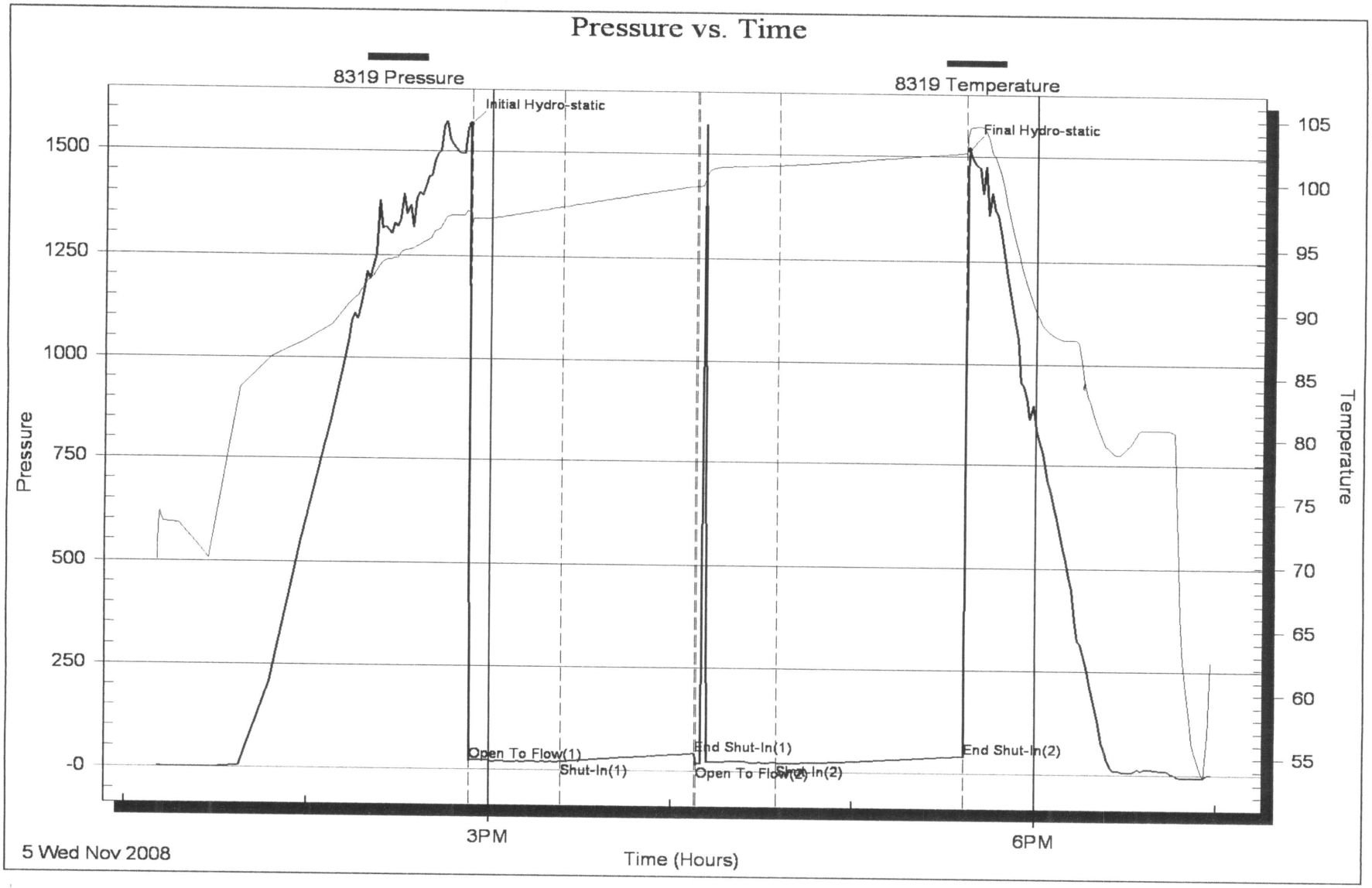
Length ft	Description	Volume bbl
10.00	Mud	0.172

Total Length: 10.00 ft Total Volume: 0.172 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8319 Pressure
8319 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
1500
1250
1000
750
500
250
-0
105
100
95
90
85
80
75
70
65
60
55
3PM
6PM
Time (Hours)
5 Wed Nov 2008

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Credo Pet.**

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

8-19-12 Barton KS

Neeland CPC #1-8

Start Date: 2008.11.06 @ 10:45:39
End Date: 2008.11.06 @ 17:56:09
Job Ticket #: 33541 DST #: 2

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33541 **DST#: 2**

Test Start: 2008.11.06 @ 10:45:39

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:40:39
Time Test Ended: 17:56:09

Interval: 3281.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3186.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

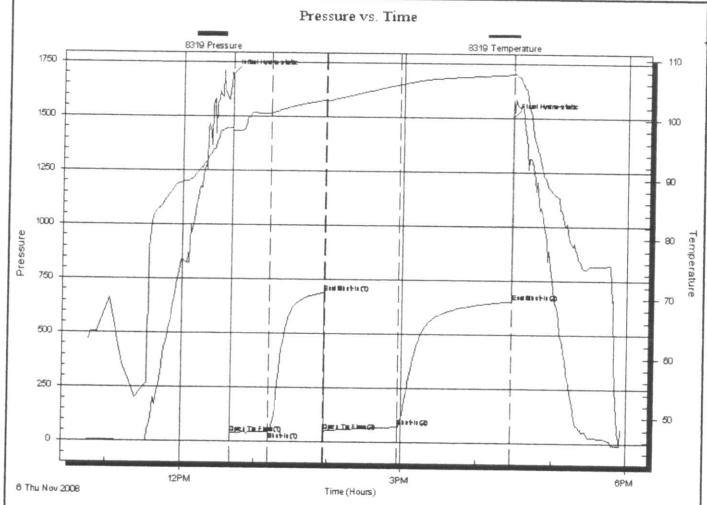
Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31

Reference Elevations: 1858.00 ft (KB)
1851.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8319 **Inside**

Press@RunDepth:	71.89 psig @	3283.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2008.11.06	End Date:	2008.11.06	Last Calib.:	2008.11.06
Start Time:	10:45:44	End Time:	17:56:08	Time On Btm:	2008.11.06 @ 12:40:09
				Time Off Btm:	2008.11.06 @ 16:27:39

TEST COMMENT: IF 5"
FF BOB 55 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.06	98.33	Initial Hydro-static
1	39.33	97.95	Open To Flow (1)
32	47.41	100.92	Shut-In(1)
76	688.52	103.14	End Shut-In(1)
77	51.70	103.23	Open To Flow (2)
137	71.89	105.79	Shut-In(2)
227	654.97	107.60	End Shut-In(2)
228	1505.69	107.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OWCM 5%O 5%W 90%M	1.07
25.00	OCM 5%O 95%M	0.43
1.00	Free Oil	0.02

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33541 **DST#: 2**

Test Start: 2008.11.06 @ 10:45:39

Tool Information

Drill Pipe:	Length:	3291.00 ft	Diameter:	4.21 inches	Volume:	56.66 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:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		42000.00 lb
					Total Volume:	56.66 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	38000.00 lb
Depth to Top Packer:		3281.00 ft						Final	39000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		59.00 ft							
Tool Length:		79.00 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			3262.00		
Shut In Tool	5.00			3267.00		
Hydraulic tool	5.00			3272.00		
Packer	4.00			3276.00	20.00	Bottom Of Top Packer
Packer	5.00			3281.00		
Stubb	1.00			3282.00		
Perforations	1.00			3283.00		
Recorder	0.00	8319	Inside	3283.00		
Recorder	0.00	8369	Inside	3283.00		
Change Over Sub	1.00			3284.00		
Blank Spacing	32.00			3316.00		
Change Over Sub	1.00			3317.00		
Perforations	20.00			3337.00		
Bullnose	3.00			3340.00	59.00	Bottom Packers & Anchor
Total Tool Length:	**79.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33541 **DST#: 2**

Test Start: 2008.11.06 @ 10:45:39

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.35 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

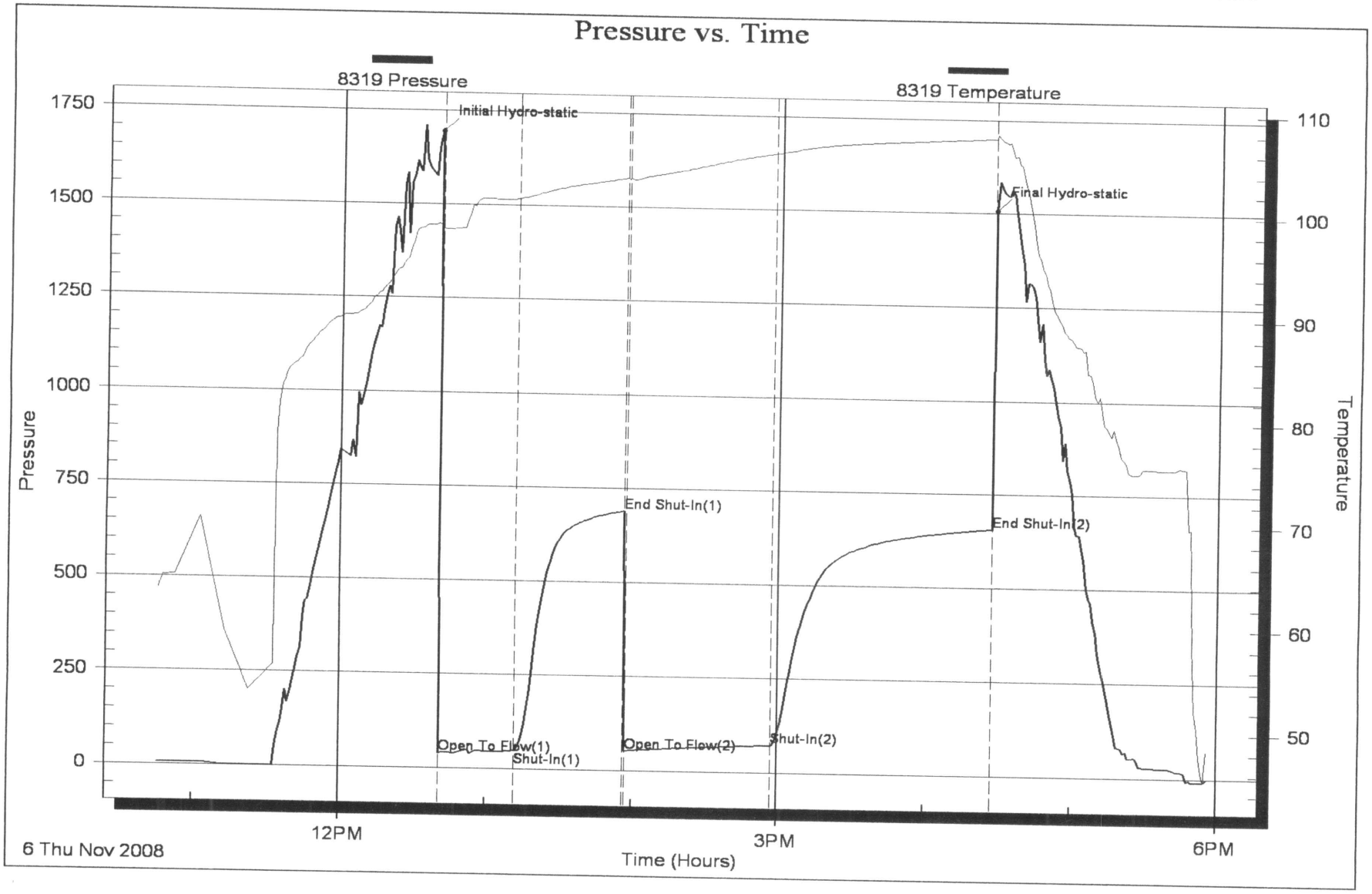
Length ft	Description	Volume bbl
62.00	OWCM 5%O 5%W 90%M	1.067
25.00	OCM 5%O 95%M	0.430
1.00	Free Oil	0.017

Total Length: 88.00 ft Total Volume: 1.514 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8319 Pressure
8319 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
12PM
3PM
6PM
6 Thu Nov 2008
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Credo Pet.**

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

8-19-12 Barton KS

Neeland CPC #1-8

Start Date: 2008.11.07 @ 08:01:20
End Date: 2008.11.07 @ 13:17:50
Job Ticket #: 33092 DST #: 3

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33092 **DST#: 3**

Test Start: 2008.11.07 @ 08:01:20

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:34:20
Time Test Ended: 13:17:50

Interval: 3390.00 ft (KB) To 3435.00 ft (KB) (TVD)
Total Depth: 3435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

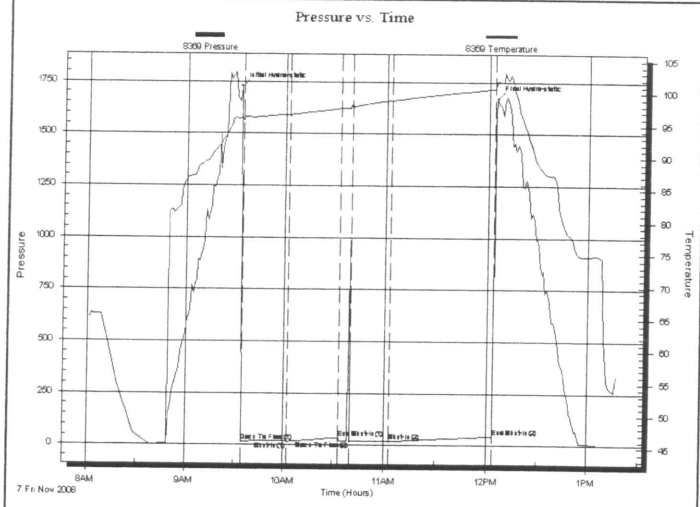
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 31

Reference Elevations: 1858.00 ft (KB)
1851.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8369 **Inside**

Press@RunDepth:	19.26 psig @	3394.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2008.11.07	End Date:	2008.11.07	Last Calib.:	2008.11.07
Start Time:	08:01:25	End Time:	13:17:49	Time On Btm:	2008.11.07 @ 09:33:20
				Time Off Btm:	2008.11.07 @ 12:04:50

TEST COMMENT: IFP - 1/4" blow - died 13 min.
ISI - no blow back
FFP - no blow - flush tool - blow died 3 min.
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.73	96.23	Initial Hydro-static
1	17.08	95.71	Open To Flow (1)
29	17.23	96.64	Shut-In(1)
60	36.65	97.62	End Shut-In(1)
67	18.73	97.38	Open To Flow (2)
90	19.26	98.84	Shut-In(2)
150	44.42	100.68	End Shut-In(2)
152	1667.29	101.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud w / O spts. M100%	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33092 **DST#: 3**

Test Start: 2008.11.07 @ 08:01:20

Tool Information

Drill Pipe:	Length:	3382.00 ft	Diameter:	4.21 inches	Volume:	58.23 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:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	58.23 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		12.00 ft					String Weight:	Initial	38000.00 lb
Depth to Top Packer:		3390.00 ft						Final	38000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		45.00 ft							
Tool Length:		65.00 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			3371.00		
Shut In Tool	5.00			3376.00		
Hydraulic tool	5.00			3381.00		
Packer	4.00			3385.00	20.00	Bottom Of Top Packer
Packer	5.00			3390.00		
Stubb	1.00			3391.00		
Perforations	3.00			3394.00		
Recorder	0.00	8319	Inside	3394.00		
Recorder	0.00	8369	Inside	3394.00		
Change Over Sub	1.00			3395.00		
Blank Spacing	31.00			3426.00		
Change Over Sub	1.00			3427.00		
Perforations	5.00			3432.00		
Bullnose	3.00			3435.00	45.00	Bottom Packers & Anchor
Total Tool Length:	**65.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33092 **DST#: 3**

Test Start: 2008.11.07 @ 08:01:20

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.34 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

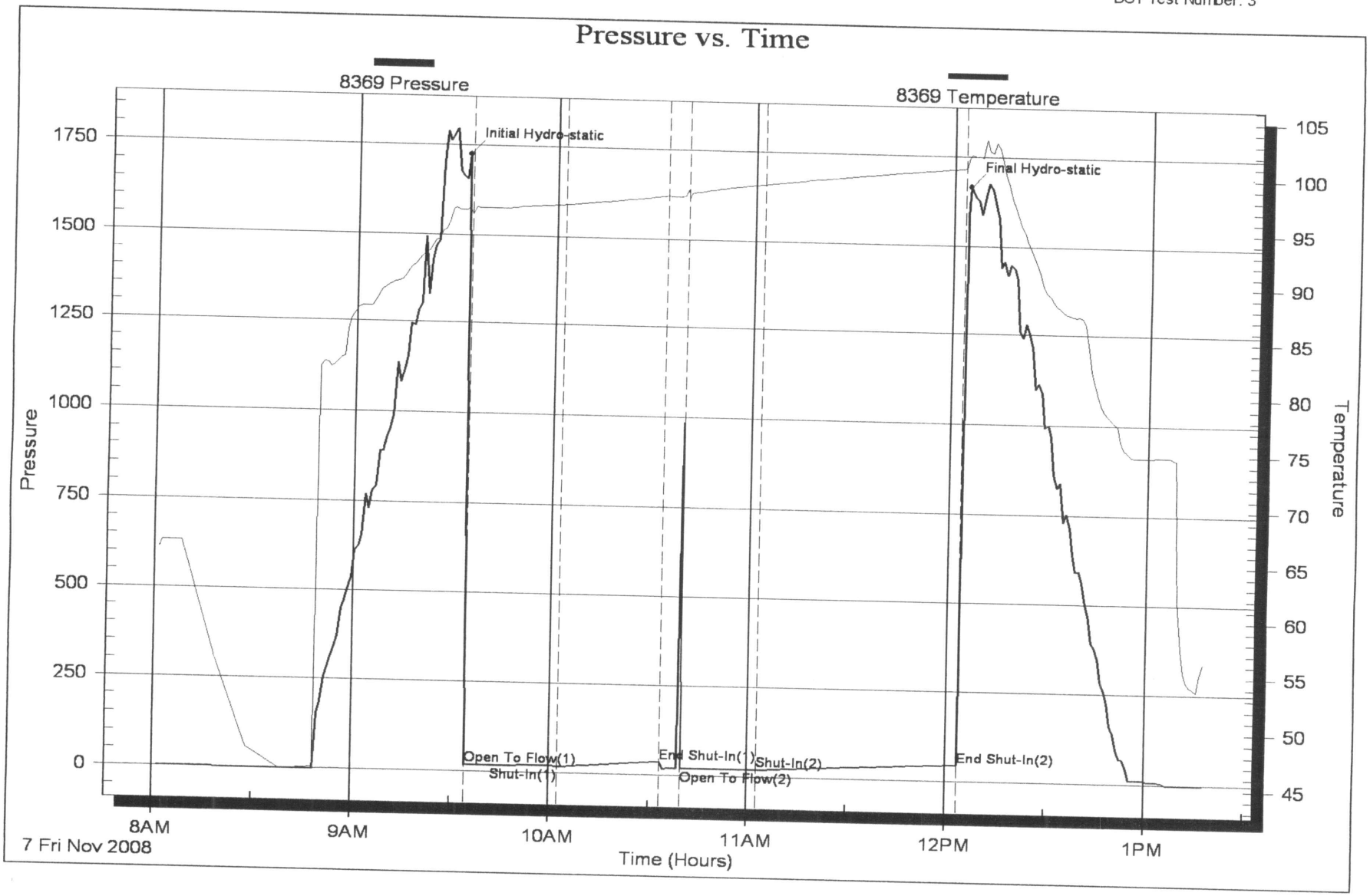
Length ft	Description	Volume bbl
3.00	mud w / O spts. M100%	0.052

Total Length: 3.00 ft Total Volume: 0.052 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8369 Pressure
8369 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Shut-In(2)
Open To Flow(2)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
60
55
50
45
8AM
9AM
10AM
11AM
12PM
1PM
7 Fri Nov 2008
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Credo Pet.**

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

8-19-12 Barton KS

Neeland CPC #1-8

Start Date: 2008.11.07 @ 21:10:22

End Date: 2008.11.08 @ 03:07:16

Job Ticket #: 33093 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Credo Pet. Neeland CPC #1-8 8-19-12 Barton KS DST # 4 Arbuckle (2) 2008.11.07

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33093 **DST#: 4**

Test Start: 2008.11.07 @ 21:10:22

GENERAL INFORMATION:

Formation: **Arbuckle (2)**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:18:17
Time Test Ended: 03:07:16

Interval: 3435.00 ft (KB) To 3458.00 ft (KB) (TVD)
Total Depth: 3186.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 31

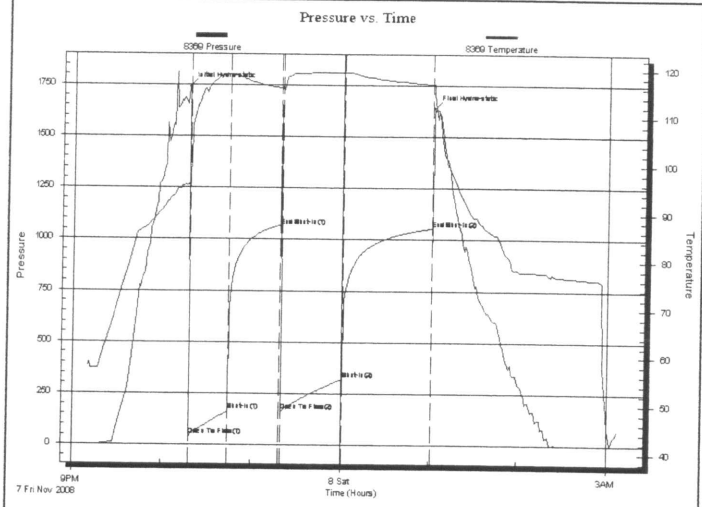
Reference Elevations: 1858.00 ft (KB)
1851.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8369 **Inside**

Press@RunDepth: 319.90 psig @ 3440.00 ft (KB)
Start Date: 2008.11.07 End Date: 2008.11.08
Start Time: 21:10:22 End Time: 03:07:16

Capacity: 7000.00 psig
Last Calib.: 2008.11.08
Time On Btm: 2008.11.07 @ 22:17:17
Time Off Btm: 2008.11.08 @ 01:02:17

TEST COMMENT: IFP - BOB 5 min.
ISI - no blow back
FFP - BOB 8 min.
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.83	96.16	Initial Hydro-static
1	44.70	98.43	Open To Flow (1)
27	164.39	118.94	Shut-In(1)
61	1061.79	115.98	End Shut-In(1)
62	164.78	115.45	Open To Flow (2)
104	319.90	119.26	Shut-In(2)
164	1054.47	116.88	End Shut-In(2)
165	1637.93	116.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
560.00	MW 95%W, 5%M	9.64
125.00	WM 20%W, 80%M	2.15

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33093 **DST#: 4**

Test Start: 2008.11.07 @ 21:10:22

Tool Information

Drill Pipe:	Length:	3419.00 ft	Diameter:	4.21 inches	Volume:	58.87 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:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	58.87 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		4.00 ft					String Weight:	Initial	38000.00 lb
Depth to Top Packer:		3435.00 ft						Final	42000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		23.00 ft							
Tool Length:		43.00 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			3416.00		
Shut In Tool	5.00			3421.00		
Hydraulic tool	5.00			3426.00		
Packer	4.00			3430.00	20.00	Bottom Of Top Packer
Packer	5.00			3435.00		
Stubb	1.00			3436.00		
Perforations	4.00			3440.00		
Recorder	0.00	8319	Inside	3440.00		
Recorder	0.00	8369	Inside	3440.00		
Perforations	15.00			3455.00		
Bullnose	3.00			3458.00	23.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC

Credo Pet.

1801 Broadway Ste. 900
Denver, CO 80202

ATTN: Jim M

Neeland CPC #1-8

8-19-12 Barton KS

Job Ticket: 33093 **DST#: 4**

Test Start: 2008.11.07 @ 21:10:22

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:	27000 ppm
Viscosity:	70.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.75 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	10000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

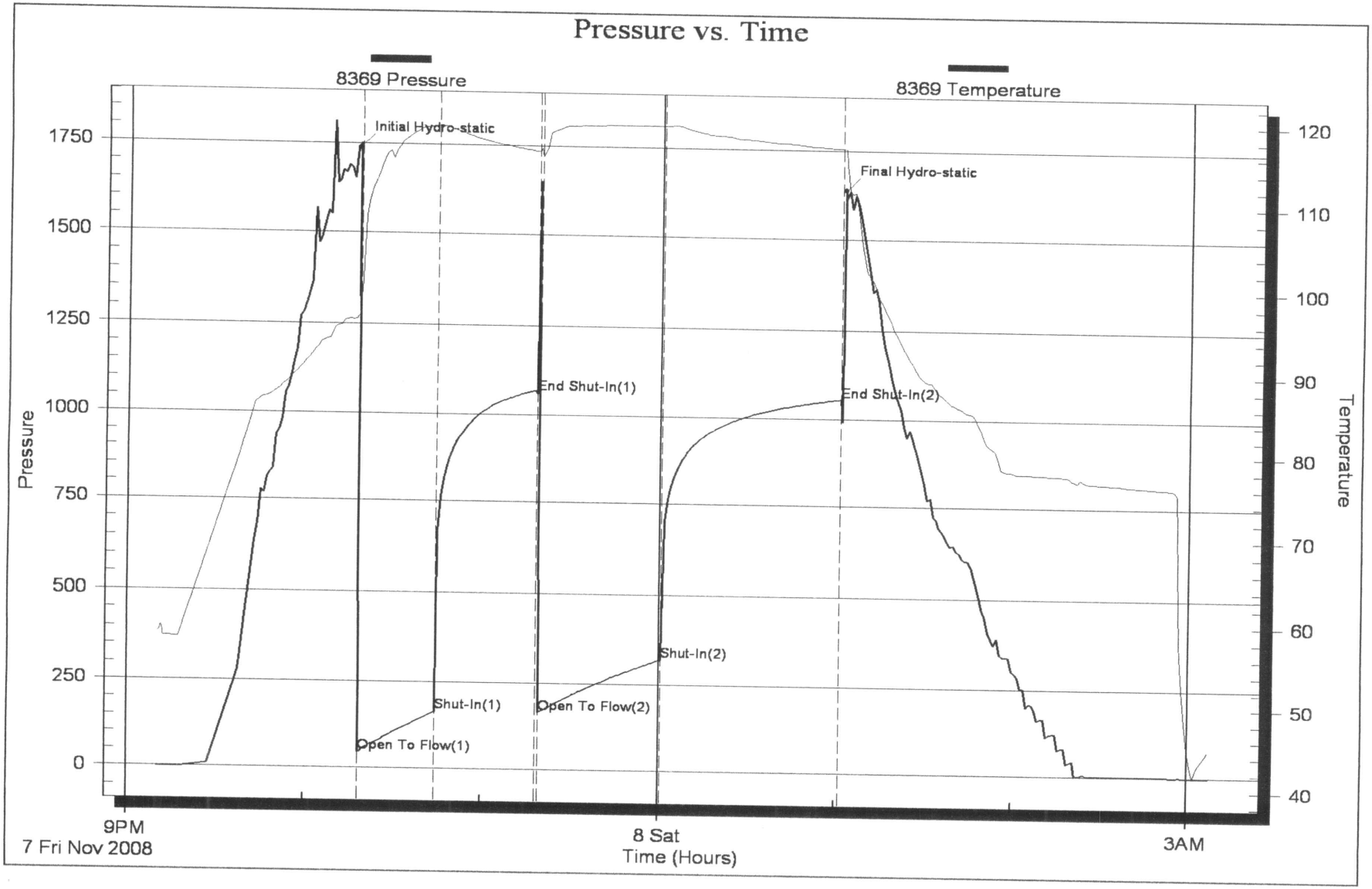
Length ft	Description	Volume bbl
560.00	MW 95%W, 5%M	9.642
125.00	WM 20%W, 80%M	2.152

Total Length: 685.00 ft Total Volume: 11.794 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Rw. .455 @ 38F Chlorides 27000


Pressure vs. Time
8369 Pressure
8369 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
120
110
100
90
80
70
60
50
40
9PM
7 Fri Nov 2008
8 Sat
Time (Hours)
3AM