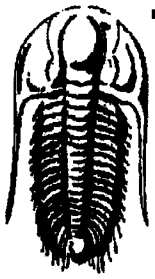
15-101-22183 10-18s-30w IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W Hwy 4
Olmitz KS 67564

CONFIDENTIAL
DEC 07 2009
KCC

ATTN: Bob Stolzle

10-18s-30w Lane KS

Sharp Seed #1-10

Start Date: 2009.08.13 @ 20:43:33
End Date: 2009.08.14 @ 03:25:27
Job Ticket #: 34857 DST #: 1

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

Larson Engineering Inc
Sharp Seed #1-10
10-18s-30w Lane KS
DST #1
H
2009.08.13

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34857 **DST#: 1**

Test Start: 2009.08.13 @ 20:43:33

GENERAL INFORMATION:

Formation: H
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:39:43
Time Test Ended: 03:25:27

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

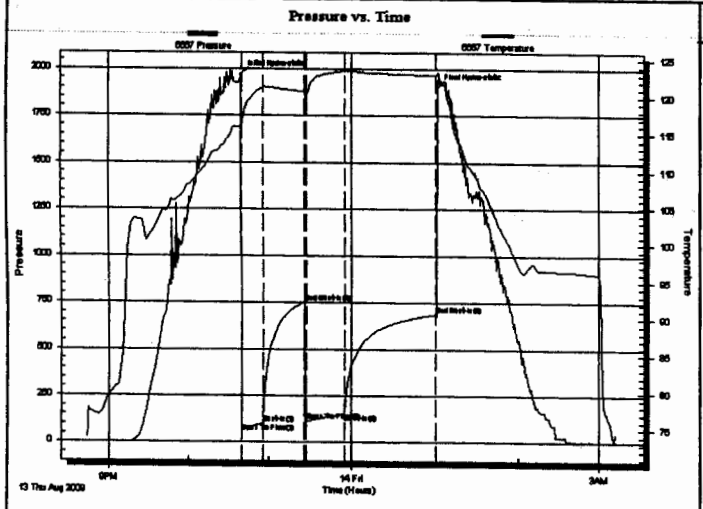
Interval: 4101.00 ft (KB) To 4126.00 ft (KB) (TVD)
Total Depth: 4126.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2868.00 ft (KB)
2863.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: 152.35 psig @ 4102.00 ft (KB)
Start Date: 2009.08.13 End Date: 2009.08.14
Start Time: 20:43:33 End Time: 03:13:27

Capacity: 7000.00 psig
Last Calib.: 2009.08.14
Time On Btm: 2009.08.13 @ 22:39:28
Time Off Btm: 2009.08.14 @ 01:01:28

TEST COMMENT: B.O.B. in 10 1/2 min.
1/4"in. return blow
B.O.B. in 14 min.
1/4"in return blow ,died in 38 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.32	116.16	Initial Hydro-static
1	56.11	115.74	Open To Flow (1)
16	102.88	121.29	Shut-In(1)
47	752.89	120.72	End Shut-In(1)
48	114.86	119.82	Open To Flow (2)
76	152.35	123.47	Shut-In(2)
141	687.08	122.95	End Shut-In(2)
142	1900.86	123.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	g m c o 15g 30m 55o	0.59
120.00	g s m c o 10g 15m 75o	1.67
100.00	c g o 5g 95o	1.40
0.00	140" w eak gas in pipe	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34857 **DST#: 1**

Test Start: 2009.08.13 @ 20:43:33

Tool Information

Drill Pipe:	Length:	3961.00 ft	Diameter:	3.80 inches	Volume:	55.56 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:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	56.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		9.00 ft					String Weight: Initial	66000.00 lb
Depth to Top Packer:		4101.00 ft					Final	67000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		25.00 ft						
Tool Length:		52.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4075.00		
Shut In Tool	5.00			4080.00		
Hydraulic tool	5.00			4085.00		
Jars	5.00			4090.00		
Safety Joint	2.00			4092.00		
Packer	5.00			4097.00	27.00	Bottom Of Top Packer
Packer	4.00			4101.00		
Stubb	1.00			4102.00		
Recorder	0.00	6667	Inside	4102.00		
Recorder	0.00	6771	Outside	4102.00		
Perforations	19.00			4121.00		
Bullnose	5.00			4126.00	25.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34857 **DST#: 1**

Test Start: 2009.08.13 @ 20:43:33

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	28 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.55 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

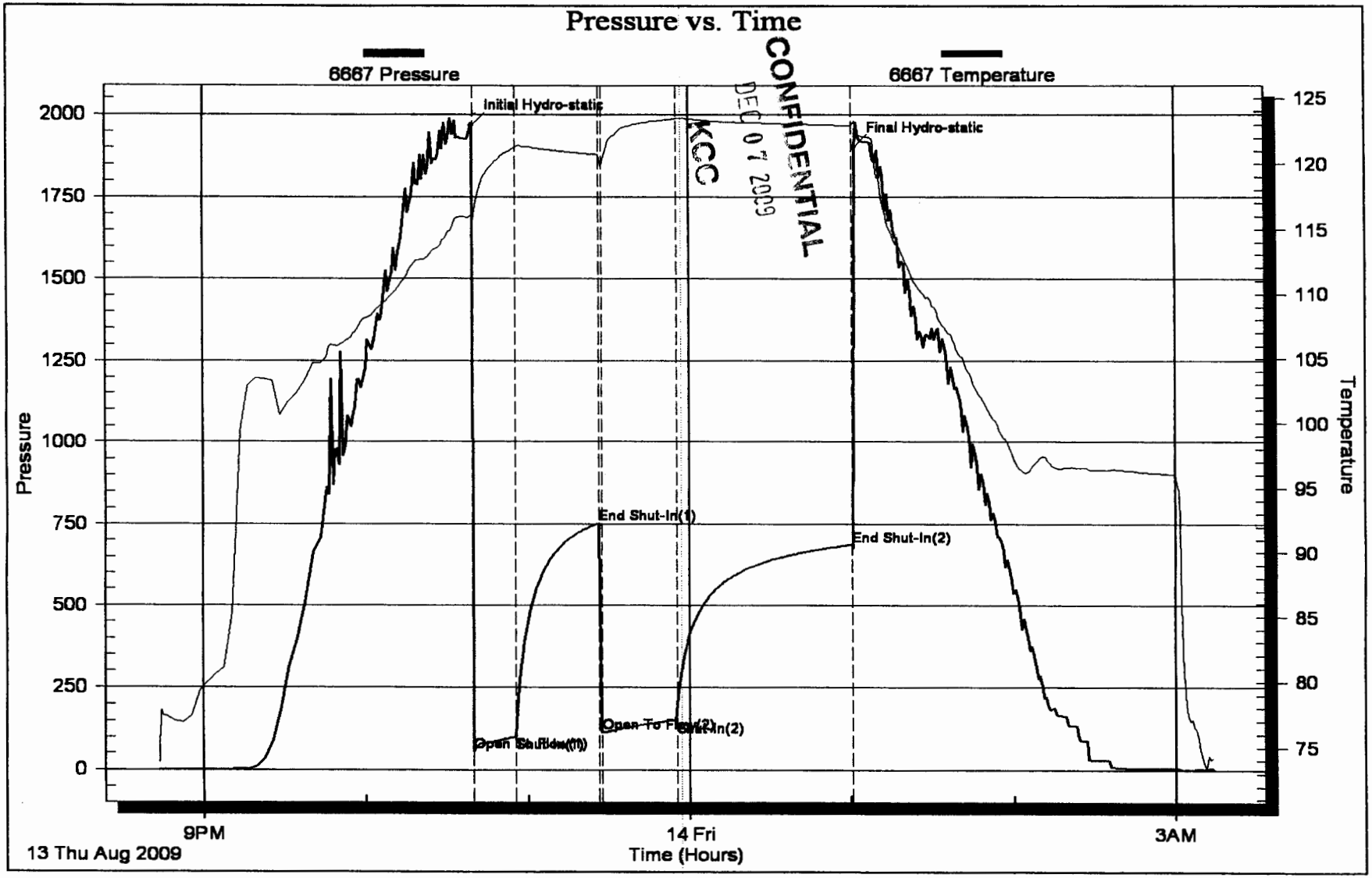
Length ft	Description	Volume bbl
120.00	g m c o 15g 30m 55o	0.590
120.00	g s m c o 10g 15m 75o	1.665
100.00	c g o 5g 95o	1.403
0.00	140" weak gas in pipe	0.000

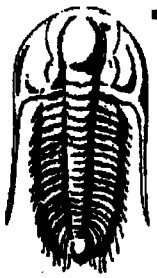
Total Length: 340.00 ft Total Volume: 3.658 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
CONFIDENTIAL
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Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
9PM
13 Thu Aug 2009
14 Fri
Time (Hours)
3AM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W Hwy 4
Olmitz KS 67564

CONFIDENTIAL
DEC 07 2009
KCC

ATTN: Bob Stolzle

10-18s-30w Lane KS

Sharp Seed #1-10

Start Date: 2009.08.14 @ 12:30:12
End Date: 2009.08.14 @ 19:25:51
Job Ticket #: 34858 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

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34858 **DST#: 2**

Test Start: 2009.08.14 @ 12:30:12

GENERAL INFORMATION:

Formation: I
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:40:07
Time Test Ended: 19:25:51

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4147.00 ft (KB) To 4170.00 ft (KB) (TVD)
Total Depth: 4170.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

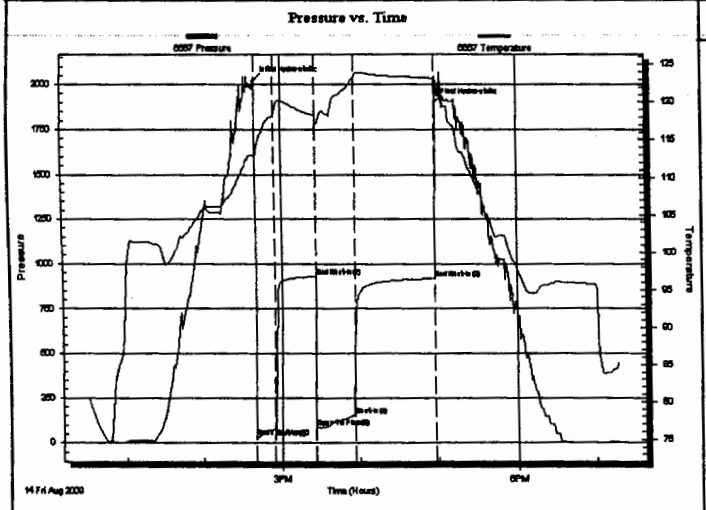
Reference Elevations: 2868.00 ft (KB)
2863.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 153.96 psig @ 4148.00 ft (KB)
Start Date: 2009.08.14 End Date: 2009.08.14
Start Time: 12:30:12 End Time: 19:16:51

Capacity: 7000.00 psig
Last Calib.: 2009.08.14
Time On Btm: 2009.08.14 @ 14:39:52
Time Off Btm: 2009.08.14 @ 16:58:37

TEST COMMENT: 7 1/2"in. blow
No return
B.O.B. in 17 min.
2 1/2"in. return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.41	112.76	Initial Hydro-static
1	32.22	112.35	Open To Flow (1)
15	77.05	118.26	Shut-In(1)
46	929.05	118.27	End Shut-In(1)
46	89.28	117.83	Open To Flow (2)
76	153.96	123.10	Shut-In(2)
138	917.81	123.14	End Shut-In(2)
139	1897.73	123.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	g m c o 15g 30m 55o	0.59
70.00	g s m c o 10g 10m 80o	0.96
130.00	c g o 10g 90o	1.82
0.00	160' gas in pipe	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34858 **DST#: 2**

Test Start: 2009.08.14 @ 12:30:12

Tool Information

Drill Pipe:	Length:	4022.00 ft	Diameter:	3.80 inches	Volume:	56.42 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	57.02 bbl	

Drill Pipe Above KB:	24.00 ft
Depth to Top Packer:	4147.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	23.00 ft
Tool Length:	50.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	1500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	90000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	66000.00 lb
Final	67000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4121.00		
Shut In Tool	5.00			4126.00		
Hydraulic tool	5.00			4131.00		
Jars	5.00			4136.00		
Safety Joint	2.00			4138.00		
Packer	5.00			4143.00	27.00	Bottom Of Top Packer
Packer	4.00			4147.00		
Stubb	1.00			4148.00		
Recorder	0.00	6667	Inside	4148.00		
Recorder	0.00	6771	Outside	4148.00		
Perforations	17.00			4165.00		
Bullnose	5.00			4170.00	23.00	Bottom Packers & Anchor
Total Tool Length:	**50.00**					

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DEC 07 2009
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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34858 **DST#: 2**

Test Start: 2009.08.14 @ 12:30:12

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	31 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.55 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

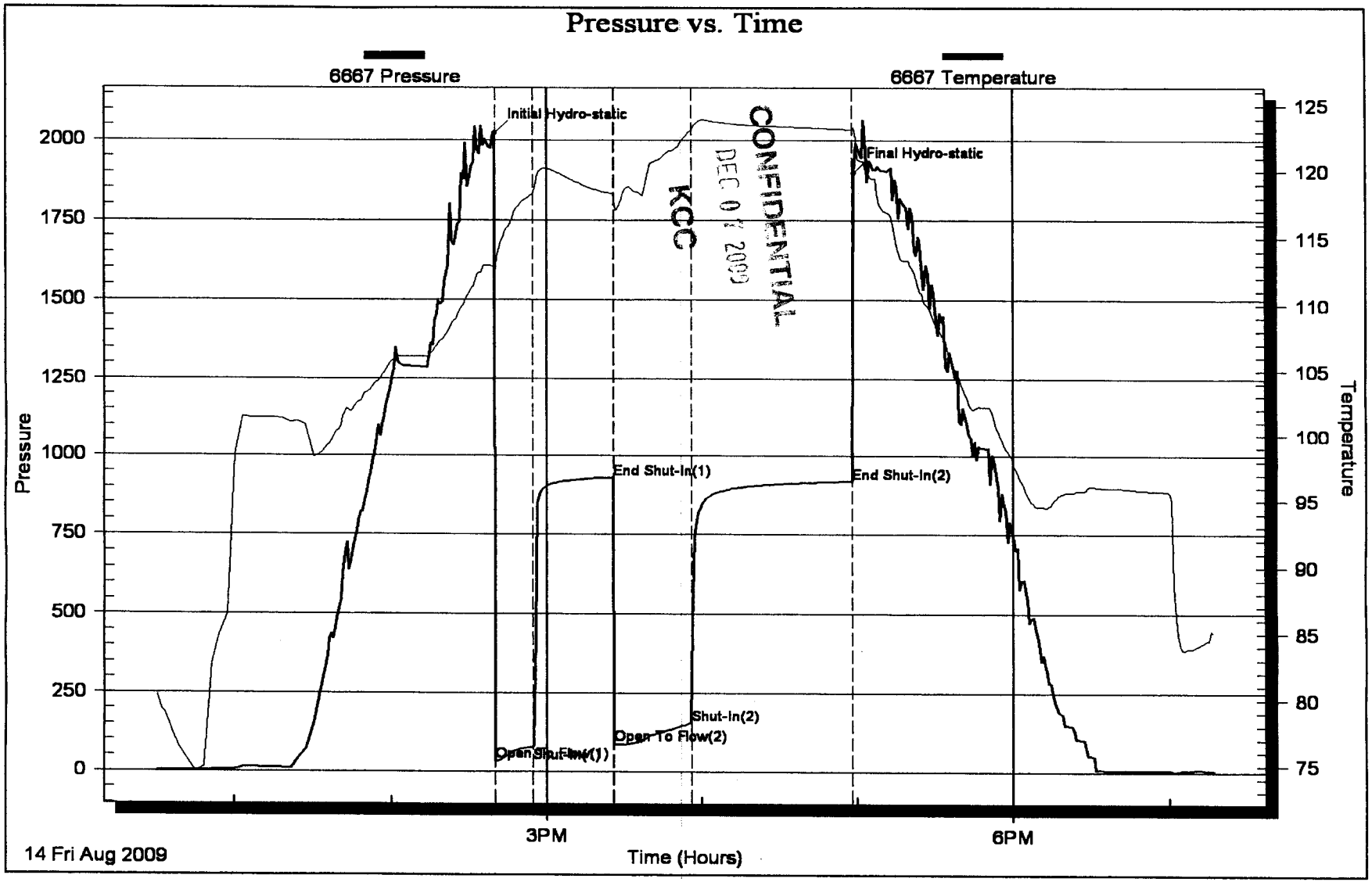
Length ft	Description	Volume bbl
120.00	g m c o 15g 30m 55o	0.590
70.00	g s m c o 10g 10m 80o	0.964
130.00	c g o 10g 90o	1.824
0.00	160' gas in pipe	0.000

Total Length: 320.00 ft Total Volume: 3.378 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(2)
Open Shut-In(1)
CONFIDENTIAL
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KCC
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
3PM
6PM
14 Fri Aug 2009
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W Hwy 4
Olmitz KS 67564

CONFIDENTIAL
DEC 07 2009
KCC

ATTN: Bob Stolzle

10-18s-30w Lane KS

Sharp Seed #1-10

Start Date: 2009.08.15 @ 02:20:35
End Date: 2009.08.15 @ 08:33:14
Job Ticket #: 34859 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

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34859 **DST#: 3**

Test Start: 2009.08.15 @ 02:20:35

GENERAL INFORMATION:

Formation: J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:09:00
Time Test Ended: 08:33:14

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4181.00 ft (KB) To 4192.00 ft (KB) (TVD)
Total Depth: 4192.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

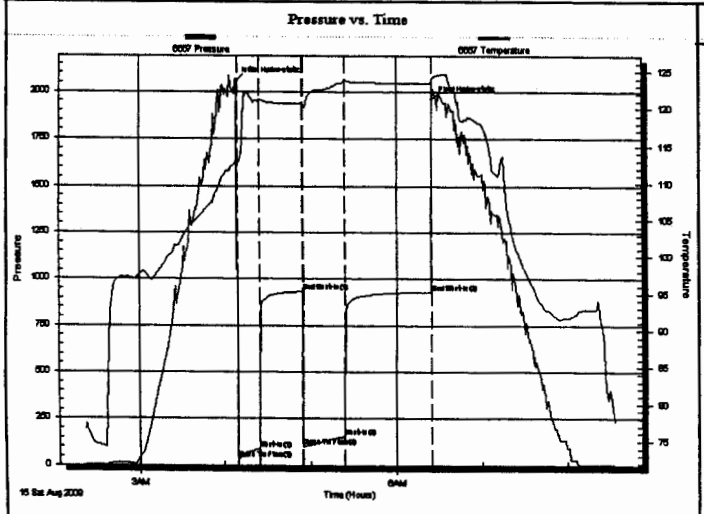
Reference Elevations: 2868.00 ft (KB)
2863.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 155.74 psig @ 4182.00 ft (KB)
Start Date: 2009.08.15 End Date: 2009.08.15
Start Time: 02:20:35 End Time: 08:33:14

Capacity: 7000.00 psig
Last Calib.: 2009.08.15
Time On Btm: 2009.08.15 @ 04:08:30
Time Off Btm: 2009.08.15 @ 06:25:00

TEST COMMENT: 7 1/2"in blow
No return
B.O.B. in 27 min
Weak surface blow died in 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.50	113.41	Initial Hydro-static
1	33.95	112.99	Open To Flow (1)
16	89.25	121.02	Shut-In(1)
46	933.11	120.73	End Shut-In(1)
46	100.63	120.36	Open To Flow (2)
75	155.74	123.72	Shut-In(2)
136	930.89	123.43	End Shut-In(2)
137	1958.32	123.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	water w/oil scum	1.41
80.00	s o c m w 10o 35m 55w	1.12
40.00	c o trace of gas 100%o	0.56
0.00	60' w eak gas in pipe	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34859 **DST#: 3**

Test Start: 2009.08.15 @ 02:20:35

Tool Information

Drill Pipe:	Length:	4052.00 ft	Diameter:	3.80 inches	Volume:	56.84 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:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	90000.00 lb
					Total Volume:	57.44 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	66000.00 lb
Depth to Top Packer:		4181.00 ft					Final	67000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		11.00 ft						
Tool Length:		38.00 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			4155.00		
Shut In Tool	5.00			4160.00		
Hydraulic tool	5.00			4165.00		
Jars	5.00			4170.00		
Safety Joint	2.00			4172.00		
Packer	5.00			4177.00	27.00	Bottom Of Top Packer
Packer	4.00			4181.00		
Stubb	1.00			4182.00		
Recorder	0.00	6667	Inside	4182.00		
Recorder	0.00	6771	Outside	4182.00		
Perforations	5.00			4187.00		
Bullnose	5.00			4192.00	11.00	Bottom Packers & Anchor
Total Tool Length:	**38.00**					

CONFIDENTIAL
DEC 07 2009
KCC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34859 **DST#: 3**

Test Start: 2009.08.15 @ 02:20:35

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	31 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	31000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.56 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

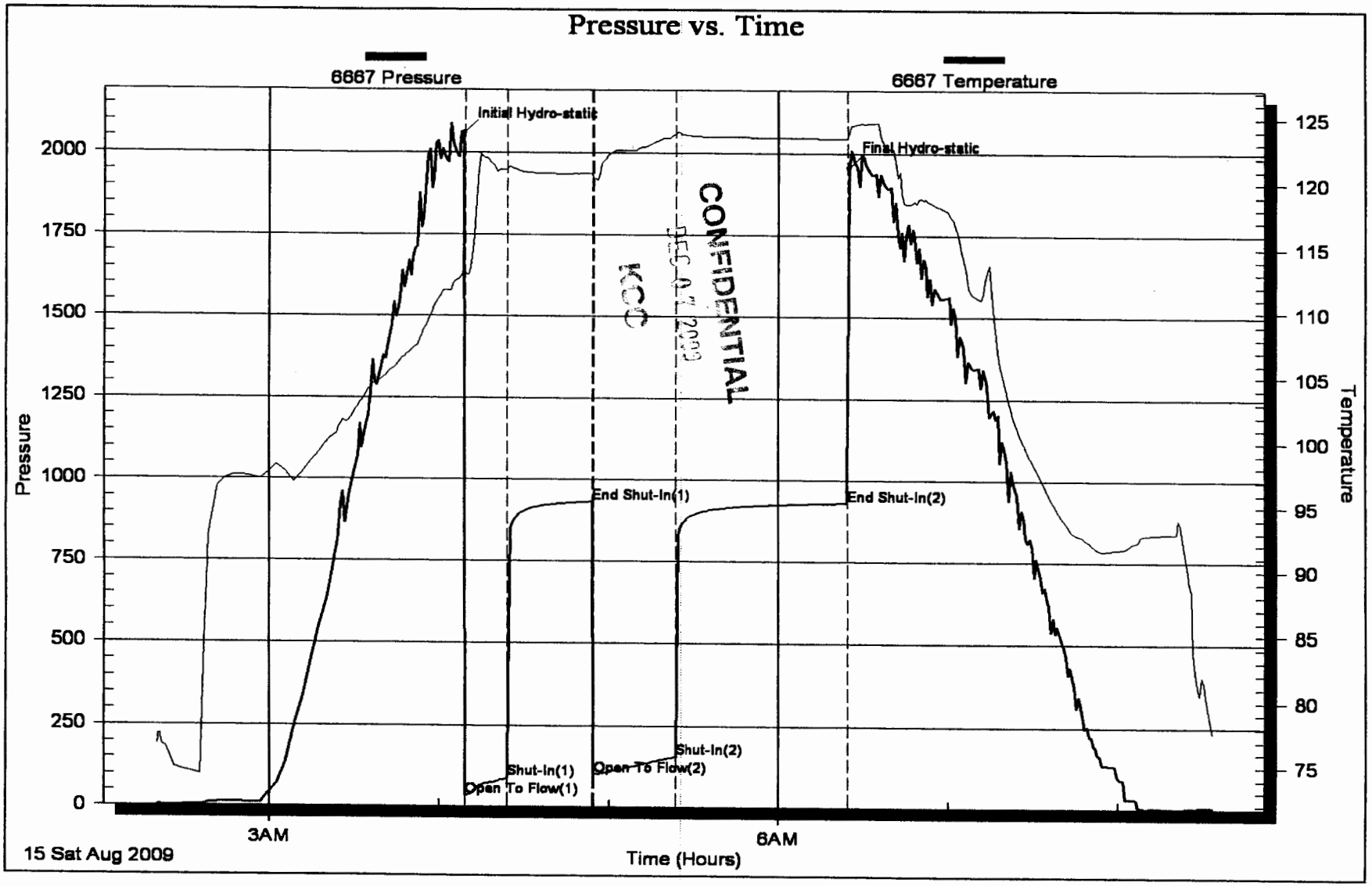
Length ft	Description	Volume bbl
180.00	water w/oil scum	1.414
80.00	s o c m w 10o 35m 55w	1.122
40.00	c o trace of gas 100%o	0.561
0.00	60' weak gas in pipe	0.000

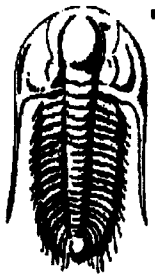
Total Length: 300.00 ft Total Volume: 3.097 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw .210 @ 76*f= 31,000 chlor


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Shut-In(2)
Open To Flow(2)
CONFIDENTIAL
KCC
DEC 07 2009
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
3AM
6AM
15 Sat Aug 2009
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W Hwy 4
Olmitz KS 67564

CONFIDENTIAL
DEC 07 2009
KCC

ATTN: Bob Stolzle

10-18s-30w Lane KS

Sharp Seed #1-10

Start Date: 2009.08.15 @ 18:00:47
End Date: 2009.08.16 @ 00:55:56
Job Ticket #: 34860 DST #: 4

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

DRILL STEM TEST REPORT

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34860 **DST#: 4**

Test Start: 2009.08.15 @ 18:00:47

GENERAL INFORMATION:

Formation: L
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:18:57
Time Test Ended: 00:55:56

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

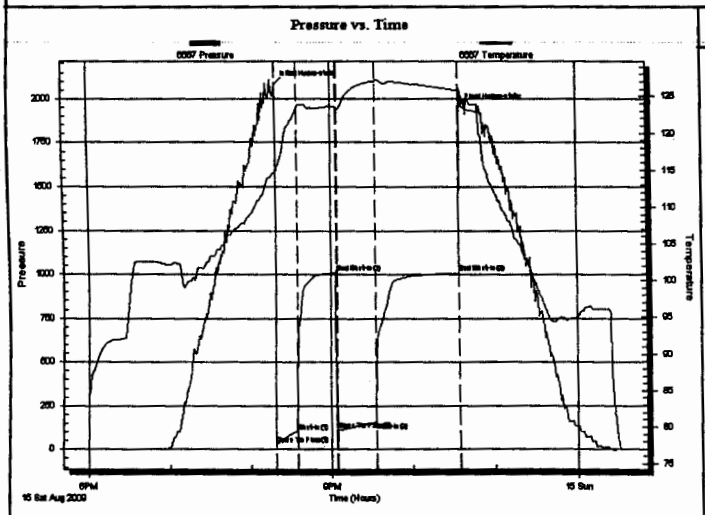
Interval: 4247.00 ft (KB) To 4263.00 ft (KB) (TVD)
Total Depth: 4263.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2868.00 ft (KB)
2863.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: 154.05 psig @ 4248.00 ft (KB)
Start Date: 2009.08.15 End Date: 2009.08.16
Start Time: 18:00:47 End Time: 00:31:56

Capacity: 7000.00 psig
Last Calib.: 2009.08.16
Time On Btm: 2009.08.15 @ 20:18:42
Time Off Btm: 2009.08.15 @ 22:35:12

TEST COMMENT: 6 1/2"in blow
No return
11"in. blow
Very weak surface blow in 11 min. ,died in 34 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.57	115.01	Initial Hydro-static
1	31.28	114.19	Open To Flow (1)
16	103.14	123.16	Shut-In(1)
46	1010.13	123.65	End Shut-In(1)
46	109.72	123.15	Open To Flow (2)
75	154.05	127.09	Shut-In(2)
136	1008.97	125.80	End Shut-In(2)
137	1952.55	126.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	water 100w	0.89
100.00	mcw w/oil scum 35m 65w	1.38
20.00	free oil 100o	0.28

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34860 **DST#: 4**

Test Start: 2009.08.15 @ 18:00:47

Tool Information

Drill Pipe:	Length:	4055.00 ft	Diameter:	3.80	inches	Volume:	56.88	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	183.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	
						Total Volume:	57.78	bbl	

Drill Pipe Above KB:	18.00 ft	Tool Weight:	1500.00 lb
Depth to Top Packer:	4247.00 ft	Weight set on Packer:	25000.00 lb
Depth to Bottom Packer:	ft	Weight to Pull Loose:	90000.00 lb
Interval between Packers:	16.00 ft	Tool Chased	0.00 ft
Tool Length:	43.00 ft	String Weight: Initial	67000.00 lb
Number of Packers:	2 Diameter: 6.75 inches	Final	68000.00 lb

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4221.00		
Shut In Tool	5.00			4226.00		
Hydraulic tool	5.00			4231.00		
Jars	5.00			4236.00		
Safety Joint	2.00			4238.00		
Packer	5.00			4243.00	27.00	Bottom Of Top Packer
Packer	4.00			4247.00		
Stubb	1.00			4248.00		
Recorder	0.00	6667	Inside	4248.00		
Recorder	0.00	6771	Outside	4248.00		
Perforations	10.00			4258.00		
Bullnose	5.00			4263.00	16.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34860 **DST#: 4**

Test Start: 2009.08.15 @ 18:00:47

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	30 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	33500 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.55 in³	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

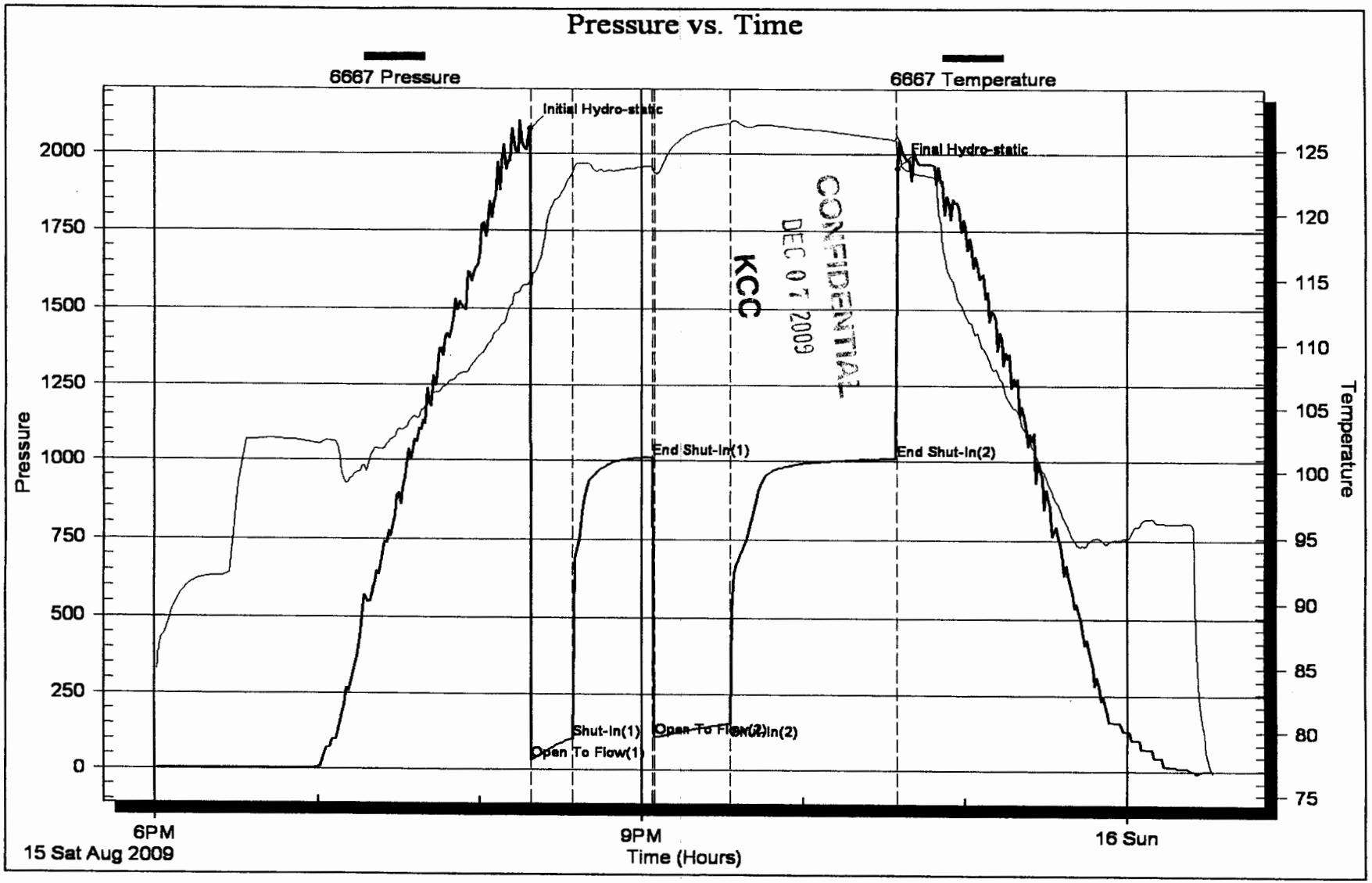
Length ft	Description	Volume bbl
180.00	water 100w	0.885
100.00	mcw w/oil scum 35m 65w	1.375
20.00	free oil 100o	0.281

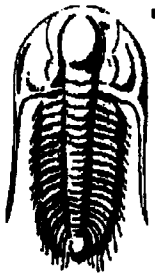
Total Length: 300.00 ft Total Volume: 2.541 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw .197 @ 74*f=33,500 chlor


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
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Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
6PM
15 Sat Aug 2009
9PM
Time (Hours)
16 Sun



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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Prepared For: **Larson Engineering Inc**

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

10-18s-30w Lane KS

Sharp Seed #1-10

Start Date: 2009.08.17 @ 06:25:36

End Date: 2009.08.17 @ 12:20:15

Job Ticket #: 34861 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

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34861 **DST#: 5**

Test Start: 2009.08.17 @ 06:25:36

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:32:16
Time Test Ended: 12:20:15

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

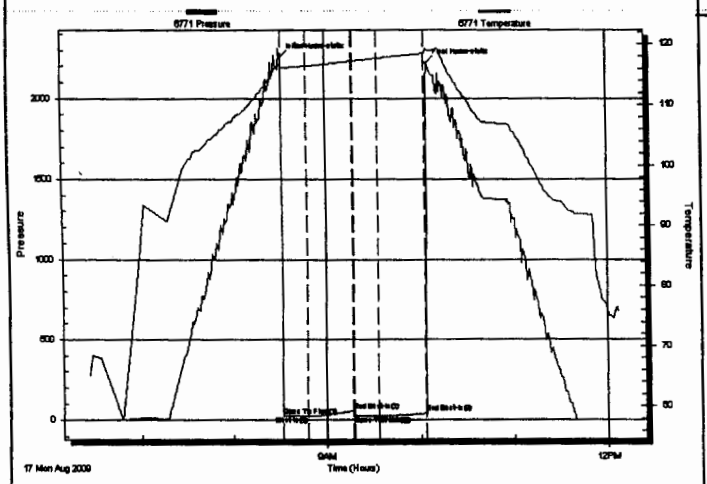
Interval: 4470.00 ft (KB) To 4535.00 ft (KB) (TVD)
Total Depth: 4535.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2868.00 ft (KB)
2863.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6771 **Outside**
Press@RunDepth: 24.91 psig @ 4471.00 ft (KB)
Start Date: 2009.08.17 End Date: 2009.08.17
Start Time: 06:25:36 End Time: 12:07:15

Capacity: 7000.00 psig
Last Calib.: 2009.08.17
Time On Btm: 2009.08.17 @ 08:32:01
Time Off Btm: 2009.08.17 @ 10:04:46

TEST COMMENT: 1/4"in. @ open, died in 11 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.33	116.72	Initial Hydro-static
1	29.57	116.07	Open To Flow (1)
16	25.36	116.38	Shut-In(1)
45	58.63	117.20	End Shut-In(1)
45	25.49	117.20	Open To Flow (2)
61	24.91	117.65	Shut-In(2)
91	42.54	118.45	End Shut-In(2)
93	2217.17	119.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34861 **DST#: 5**

Test Start: 2009.08.17 @ 06:25:36

Tool Information

Drill Pipe:	Length:	4335.00 ft	Diameter:	3.80 inches	Volume:	60.81 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:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		95000.00 lb
					Total Volume:	61.41 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight:	Initial	66000.00 lb
Depth to Top Packer:		4470.00 ft						Final	66000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		65.00 ft							
Tool Length:		92.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4444.00		
Shut In Tool	5.00			4449.00		
Hydraulic tool	5.00			4454.00		
Jars	5.00			4459.00		
Safety Joint	2.00			4461.00		
Packer	5.00			4466.00	27.00	Bottom Of Top Packer
Packer	4.00			4470.00		
Stubb	1.00			4471.00		
Recorder	0.00	6667	Inside	4471.00		
Recorder	0.00	6771	Outside	4471.00		
Perforations	7.00			4478.00		
Change Over Sub	1.00			4479.00		
Drill Pipe	31.00			4510.00		
Change Over Sub	1.00			4511.00		
Perforations	19.00			4530.00		
Bullnose	5.00			4535.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**92.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Stolzle

Sharp Seed #1-10

10-18s-30w Lane KS

Job Ticket: 34861 **DST#: 5**

Test Start: 2009.08.17 @ 06:25:36

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

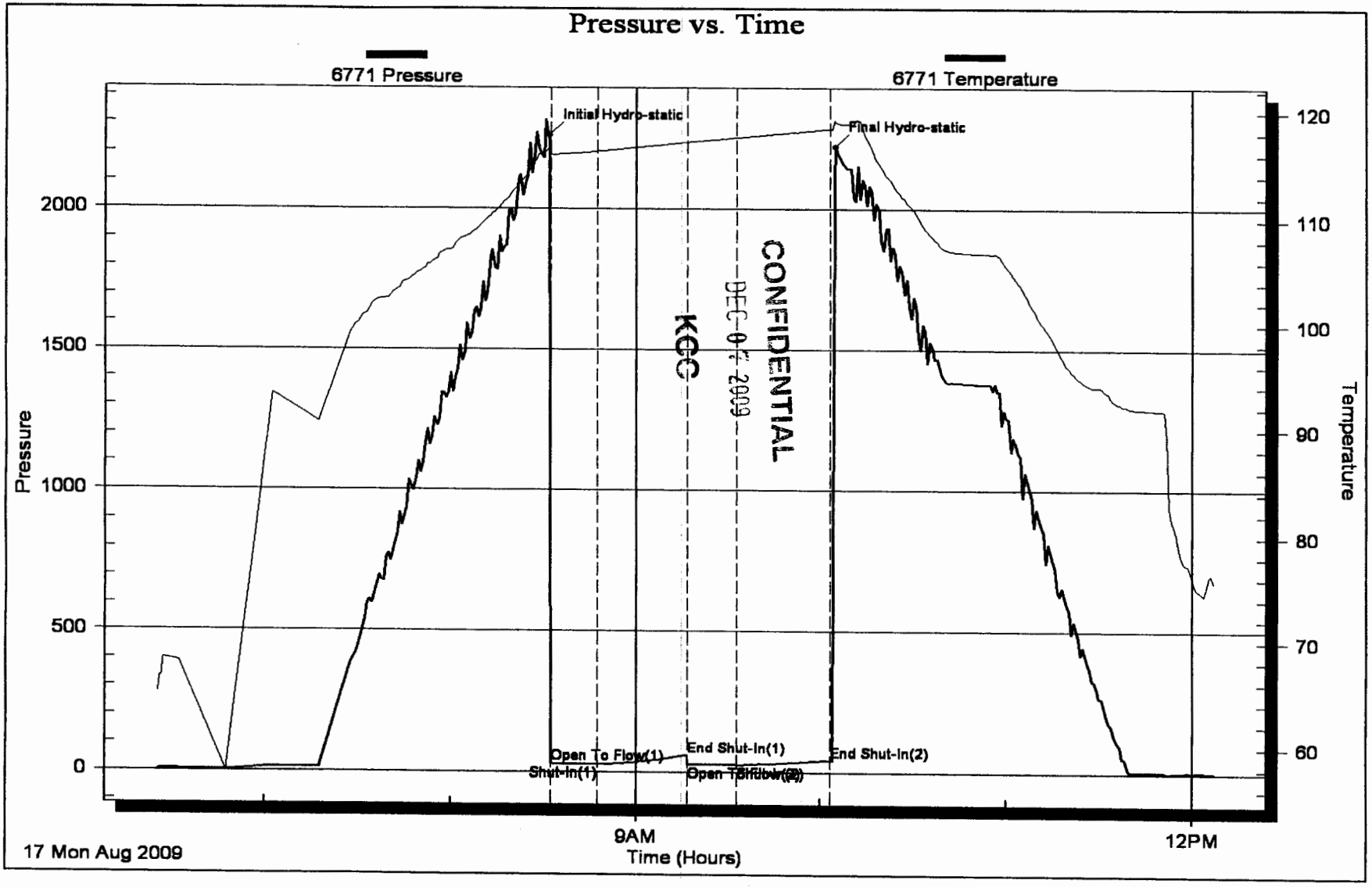
Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6771 Pressure
6771 Temperature
Initial Hydro-static
Final Hydro-static
2000
1500
1000
500
0
Pressure
120
110
100
90
80
70
60
Temperature
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Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
End Shut-In(2)
17 Mon Aug 2009
9AM
12PM
Time (Hours)