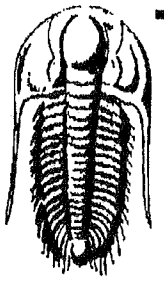
15-065-23657 17-6s-23w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, Ks
67663

ATTN: Al Downing

17 6 23 Graham KS

Stowell 17-1

Start Date: 2010.07.20 @ 03:02:03
End Date: 2010.07.20 @ 08:44:57
Job Ticket #: 38969 DST #: 1

KCC
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AUG 25 2010
KCC WICHITA

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

H&C Oil Operating, Inc.
Stowell 17-1
17 6 23 Graham KS
DST # 1
LKC "A"
2010.07.20

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38969 **DST#: 1**

Test Start: 2010.07.20 @ 03:02:03

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:19:28
Time Test Ended: 08:44:57

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 3674.00 ft (KB) To 3703.00 ft (KB) (TVD)
Total Depth: 3703.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

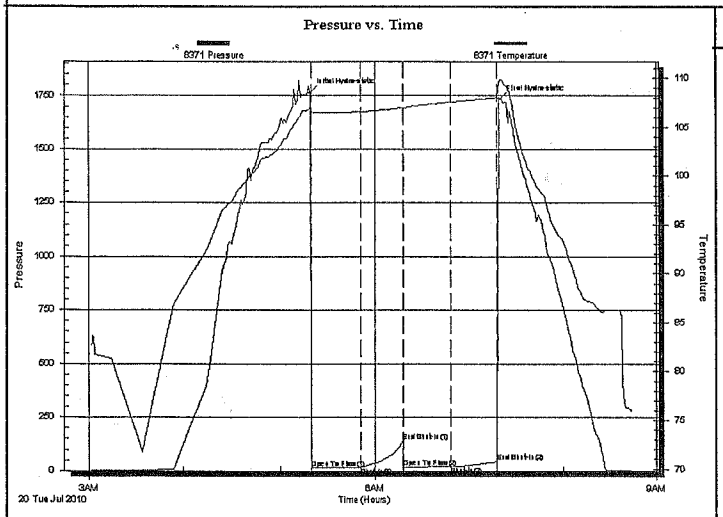
Reference Elevations: 2440.00 ft (KB)
2435.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8371 **Outside**

Press@RunDepth: 19.86 psig @ 3675.00 ft (KB)
Start Date: 2010.07.20 End Date: 2010.07.20
Start Time: 03:02:03 End Time: 08:44:57

Capacity: 8000.00 psig
Last Calib.: 2010.07.20
Time On Btm: 2010.07.20 @ 05:18:28
Time Off Btm: 2010.07.20 @ 07:19:57

TEST COMMENT: IFP - stg. sur blow - died 17 min.
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.29	107.02	Initial Hydro-static
1	14.89	106.54	Open To Flow (1)
32	16.80	106.57	Shut-In(1)
60	140.95	106.97	End Shut-In(1)
60	17.50	106.90	Open To Flow (2)
91	19.86	107.56	Shut-In(2)
120	45.09	108.01	End Shut-In(2)
122	1736.23	109.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCN 20%O, 80%M	0.04

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38969 **DST#: 1**

Test Start: 2010.07.20 @ 03:02:03

Tool Information

Drill Pipe:	Length:	3679.00 ft	Diameter:	3.60 inches	Volume:	46.32 bbl	Tool Weight:	2500.00 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:	61000.00 lb
					Total Volume:	46.32 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	41000.00 lb
Depth to Top Packer:		3674.00 ft					Final	41000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		29.00 ft						
Tool Length:		49.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:
10' fill on bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3659.00		
Hydraulic tool	5.00			3664.00		
Packer	5.00			3669.00	20.00	Bottom Of Top Packer
Packer	5.00			3674.00		
Stabb	1.00			3675.00		
Recorder	0.00	8647	Inside	3675.00		
Recorder	0.00	8371	Outside	3675.00		
Perforations	25.00			3700.00		
Bullnose	3.00			3703.00	29.00	Bottom Packers & Anchor
Total Tool Length:	**49.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663
ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38969 **DST#: 1**

Test Start: 2010.07.20 @ 03:02:03

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.95 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1400.00 ppm				
Filter Cake:	inches				

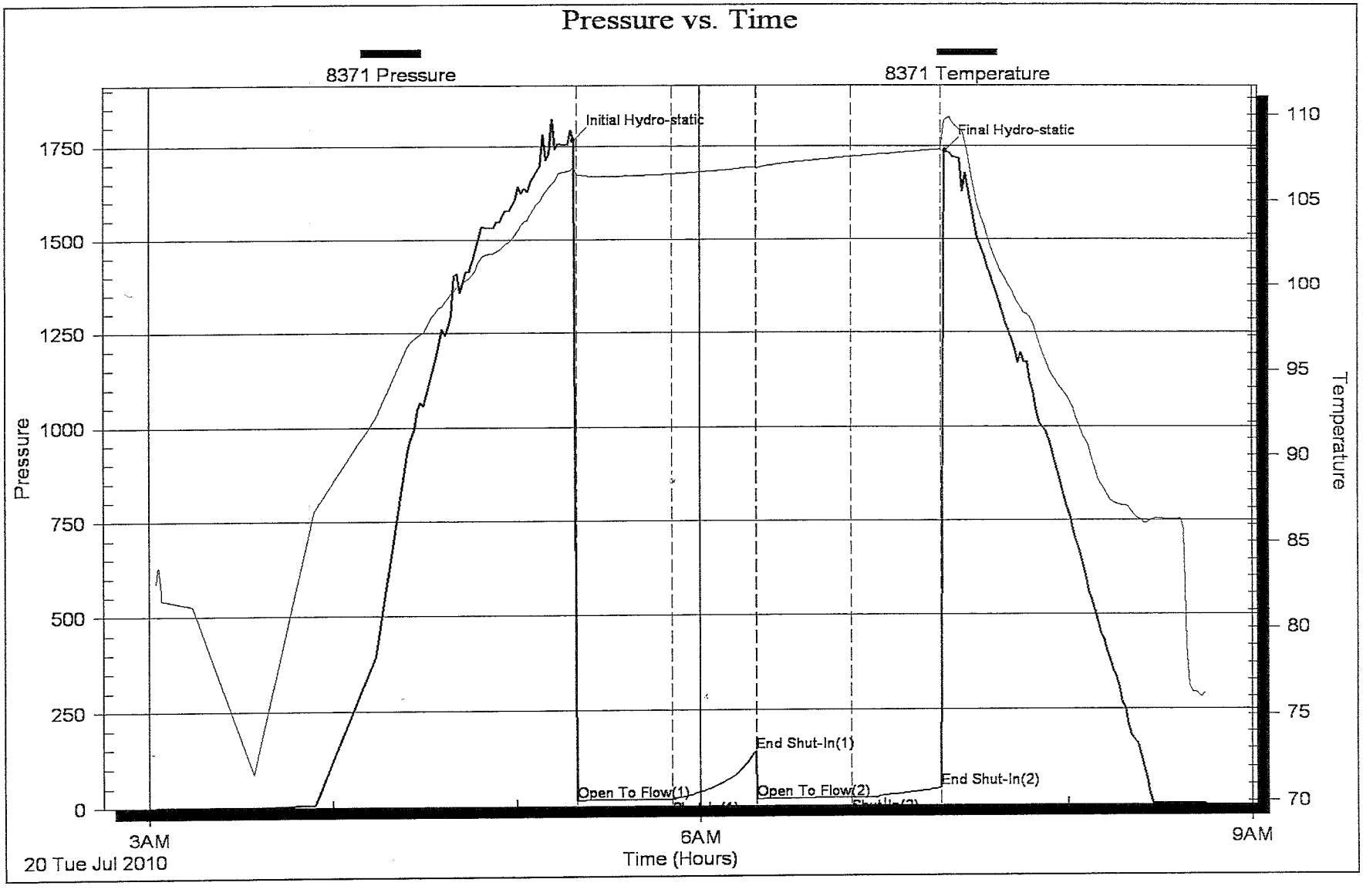
Recovery Information

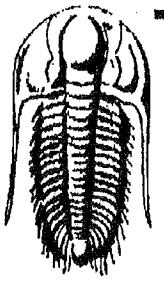
Recovery Table

Length ft	Description	Volume bbl
3.00	OCN 20%O, 80%M	0.038

Total Length: 3.00 ft Total Volume: 0.038 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8371 Pressure
8371 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Open To Flow(2)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
3AM
6AM
9AM
20 Tue Jul 2010
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, Ks
67663

ATTN: Al Downing

17 6 23 Graham KS

Stowell 17-1

Start Date: 2010.07.20 @ 15:23:22
End Date: 2010.07.20 @ 22:13:16
Job Ticket #: 38970 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

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663
ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38970 **DST#: 2**

Test Start: 2010.07.20 @ 15:23:22

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:24:47
Time Test Ended: 22:13:16

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

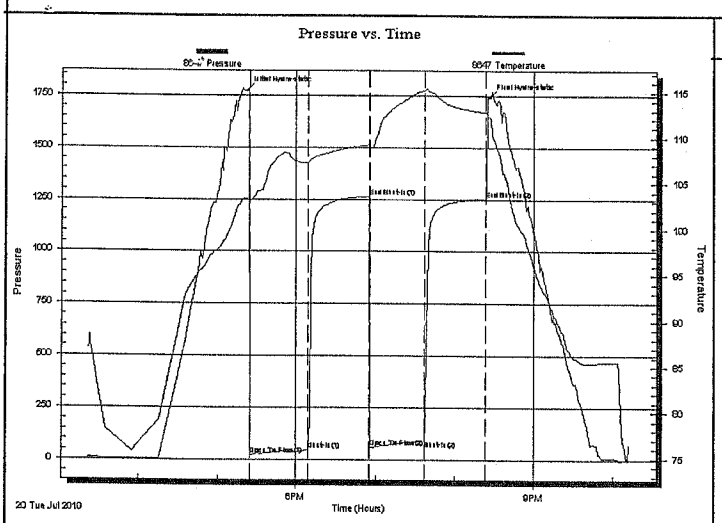
Interval: 3696.00 ft (KB) To 3720.00 ft (KB) (TVD)
Total Depth: 3720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2440.00 ft (KB)
2435.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**
Press@RunDepth: 91.24 psig @ 3697.00 ft (KB)
Start Date: 2010.07.20 End Date: 2010.07.20
Start Time: 15:23:22 End Time: 22:13:16

Capacity: 8000.00 psig
Last Calib.: 2010.07.20
Time On Btm: 2010.07.20 @ 17:22:47
Time Off Btm: 2010.07.20 @ 20:26:16

TEST COMMENT: IFP - w eak to good blow sur - 7"
ISI - no blow back
FFP - w eak to fair blow sur - 5 1/2"
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.96	103.38	Initial Hydro-static
2	22.46	102.83	Open To Flow (1)
47	47.47	107.29	Shut-In(1)
92	1262.57	109.21	End Shut-In(1)
93	59.54	109.10	Open To Flow (2)
134	91.24	115.20	Shut-In(2)
181	1254.25	112.83	End Shut-In(2)
184	1741.86	112.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW 85%W, 15%M	1.89

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38970 **DST#: 2**

Test Start: 2010.07.20 @ 15:23:22

Tool Information

Drill Pipe:	Length:	3709.00 ft	Diameter:	3.60 inches	Volume:	46.70 bbl	Tool Weight:	2500.00 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:	46.70 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		33.00 ft					String Weight: Initial	42000.00 lb
Depth to Top Packer:		3696.00 ft					Final	44000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		24.00 ft						
Tool Length:		44.00 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			3681.00		
Hydraulic tool	5.00			3686.00		
Packer	5.00			3691.00	20.00	Bottom Of Top Packer
Packer	5.00			3696.00		
Stubb	1.00			3697.00		
Recorder	0.00	8647	Inside	3697.00		
Recorder	0.00	8371	Outside	3697.00		
Perforations	20.00			3717.00		
Bullnose	3.00			3720.00	24.00	Bottom Packers & Anchor
Total Tool Length:	**44.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38970 DST#: 2

Test Start: 2010.07.20 @ 15:23:22

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:	34000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.95 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1400.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

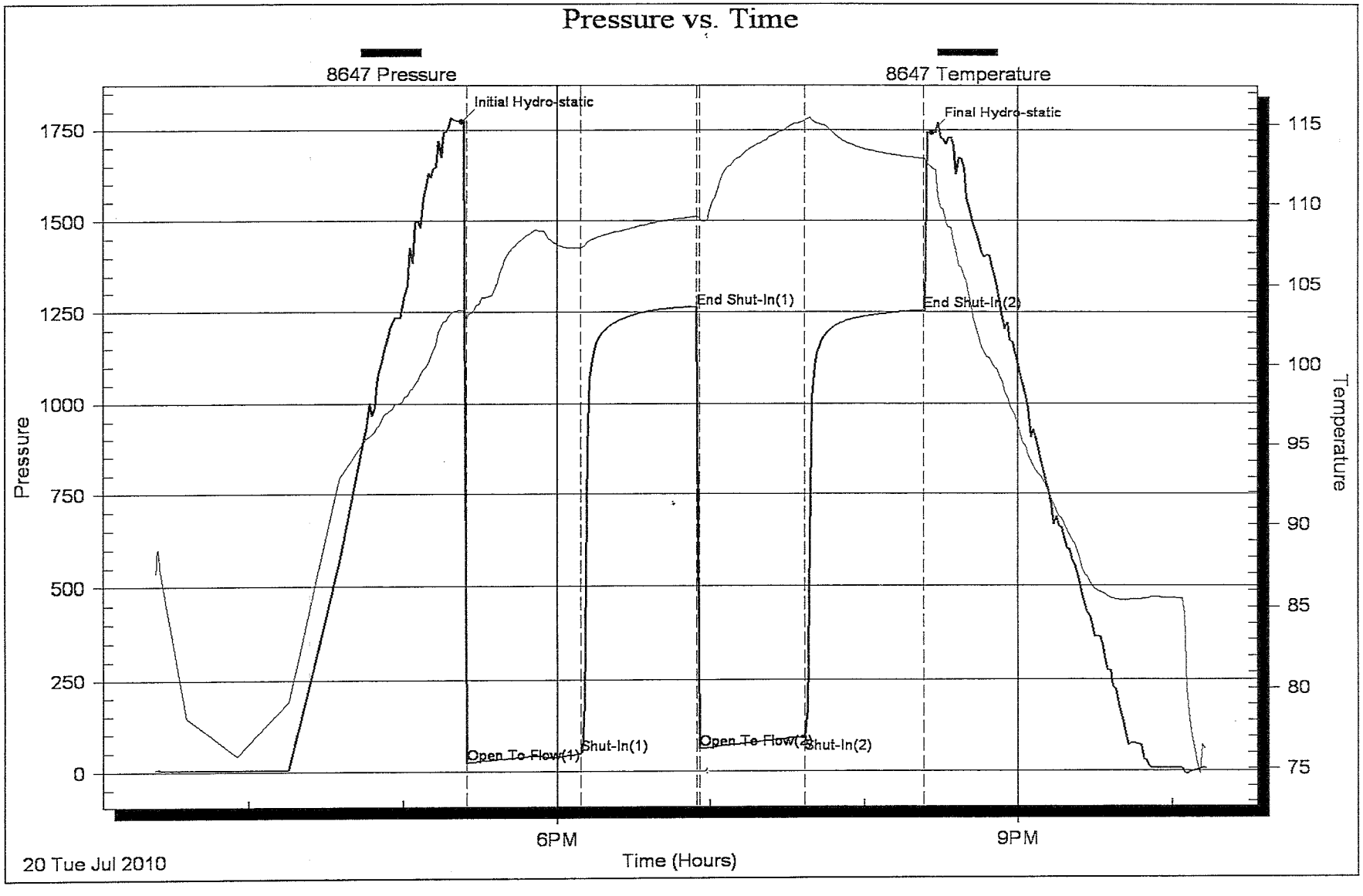
Length ft	Description	Volume bbl
150.00	MW 85%W, 15%M	1.888

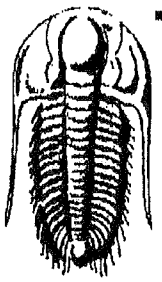
Total Length: 150.00 ft Total Volume: 1.888 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .198 @ 76F = 34000 chlorides


Pressure vs. Time
8647 Pressure
8647 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
115
110
105
100
95
90
85
80
75
6PM
9PM
Time (Hours)
20 Tue Jul 2010



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, Ks
67663

ATTN: Al Downing

17 6 23 Graham KS

Stowell 17-1

Start Date: 2010.07.21 @ 06:31:02
End Date: 2010.07.21 @ 12:22:26
Job Ticket #: 38971 DST #: 3

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

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663
ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38971 **DST#: 3**

Test Start: 2010.07.21 @ 06:31:02

GENERAL INFORMATION:

Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:10:57
Time Test Ended: 12:22:26

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 3716.00 ft (KB) To 3755.00 ft (KB) (TVD)
Total Depth: 3755.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

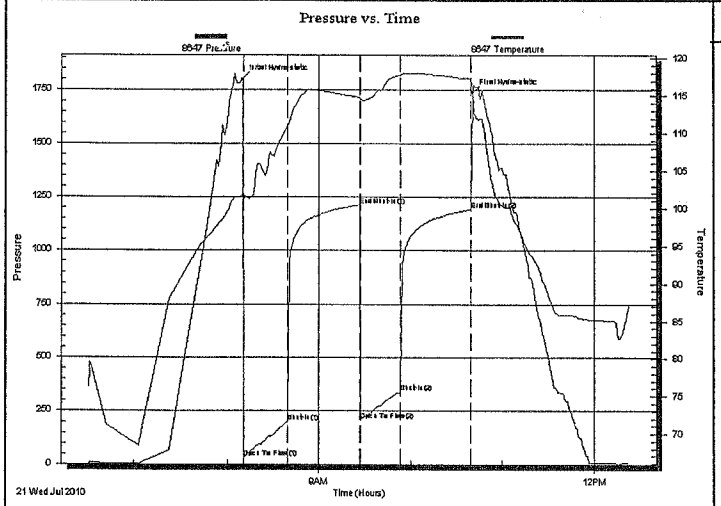
Reference Elevations: 2440.00 ft (KB)
2435.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 338.78 psig @ 3719.00 ft (KB)
Start Date: 2010.07.21 End Date: 2010.07.21
Start Time: 06:31:02 End Time: 12:22:26

Capacity: 8000.00 psig
Last Calib.: 2010.07.21
Time On Btm: 2010.07.21 @ 08:09:57
Time Off Btm: 2010.07.21 @ 10:40:27

TEST COMMENT: IFP - BOB 6 min.
ISI - no blow back
FFP - BOB 8 min.
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.41	101.99	Initial Hydro-static
1	29.41	101.02	Open To Flow (1)
30	199.39	110.92	Shut-In(1)
77	1212.21	114.81	End Shut-In(1)
77	208.57	114.54	Open To Flow (2)
104	338.78	117.74	Shut-In(2)
150	1192.49	117.26	End Shut-In(2)
151	1739.44	116.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
555.00	MW 85%W, 15%M	6.99
145.00	MW 50%W, 50%M	1.83

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38971 **DST#: 3**

Test Start: 2010.07.21 @ 06:31:02

Tool Information

Drill Pipe:	Length:	3710.00 ft	Diameter:	3.60 inches	Volume:	46.71 bbl	Tool Weight:	2500.00 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:	46.71 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:		14.00 ft					String Weight: Initial	42000.00 lb	
Depth to Top Packer:		3716.00 ft					Final	45000.00 lb	
Depth to Bottom Packer:		ft							
Interval betw een Packers:		39.00 ft							
Tool Length:		59.00 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			3701.00		
Hydraulic tool	5.00			3706.00		
Packer	5.00			3711.00	20.00	Bottom Of Top Packer
Packer	5.00			3716.00		
Stubb	1.00			3717.00		
Perforations	1.00			3718.00		
Change Over Sub	1.00			3719.00		
Recorder	0.00	8647	Inside	3719.00		
Recorder	0.00	8371	Outside	3719.00		
Blank Spacing	31.00			3750.00		
Change Over Sub	1.00			3751.00		
Perforations	1.00			3752.00		
Bullnose	3.00			3755.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks
67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38971 DST#: 3

Test Start: 2010.07.21 @ 06:31:02

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:	40000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

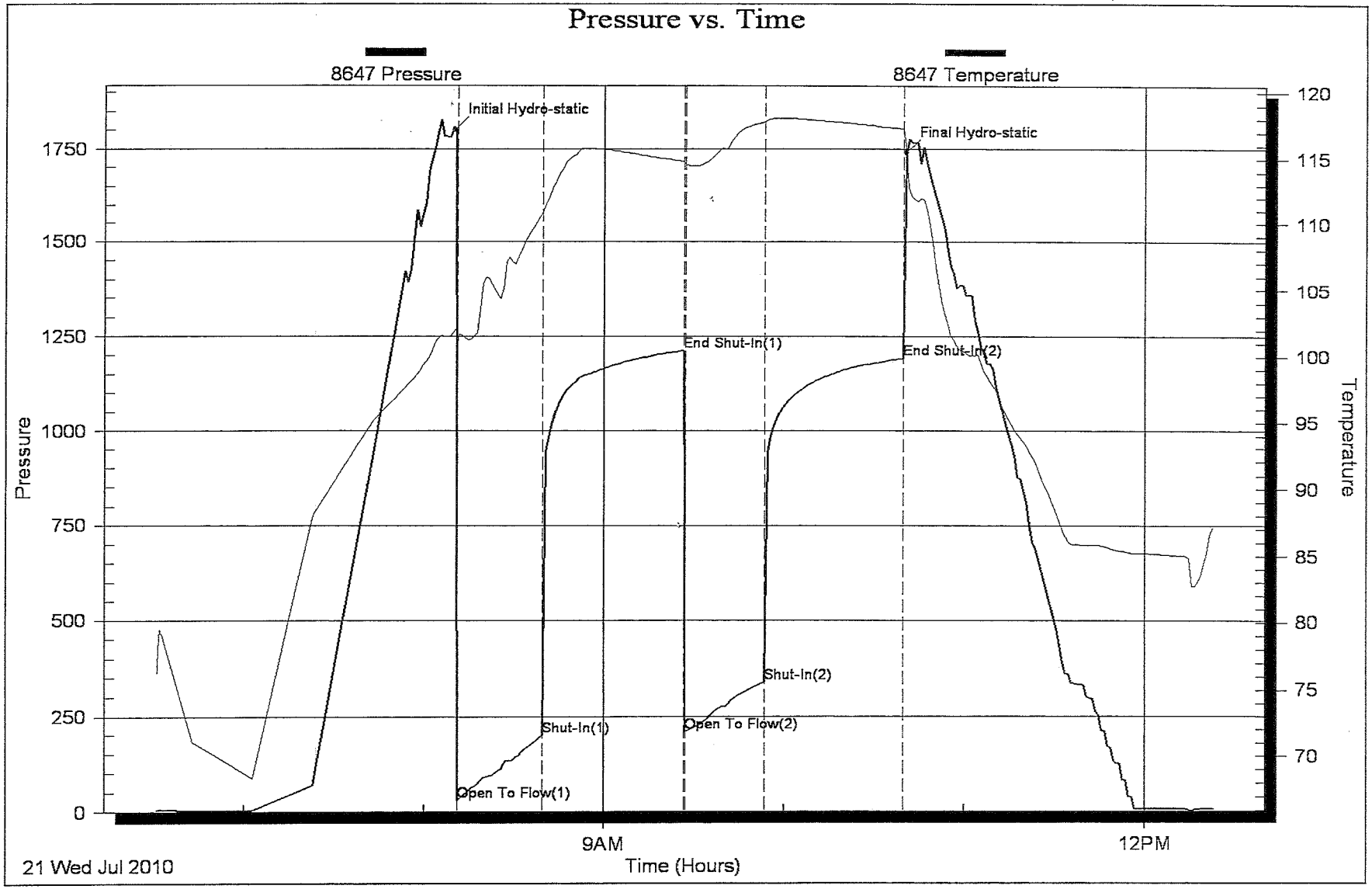
Length ft	Description	Volume bbl
555.00	MW 85%W, 15%M	6.987
145.00	MW 50%W, 50%M	1.826

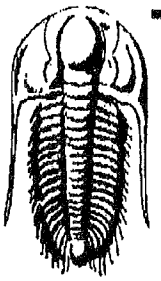
Total Length: 700.00 ft Total Volume: 8.813 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .185 @ 72F = 40000 chlorides


Pressure vs. Time
8647 Pressure
8647 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
115
110
105
100
95
90
85
80
75
70
9AM
12PM
21 Wed Jul 2010
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, Ks 67663

ATTN: Al Downing

17 6 23 Graham KS

Stowell 17-1

Start Date: 2010.07.21 @ 23:32:47
End Date: 2010.07.22 @ 05:19:11
Job Ticket #: 38972 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

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks 67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38972 **DST#: 4**

Test Start: 2010.07.21 @ 23:32:47

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:43:42
Time Test Ended: 05:19:11

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 3804.00 ft (KB) To 3836.00 ft (KB) (TVD)
Total Depth: 3836.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

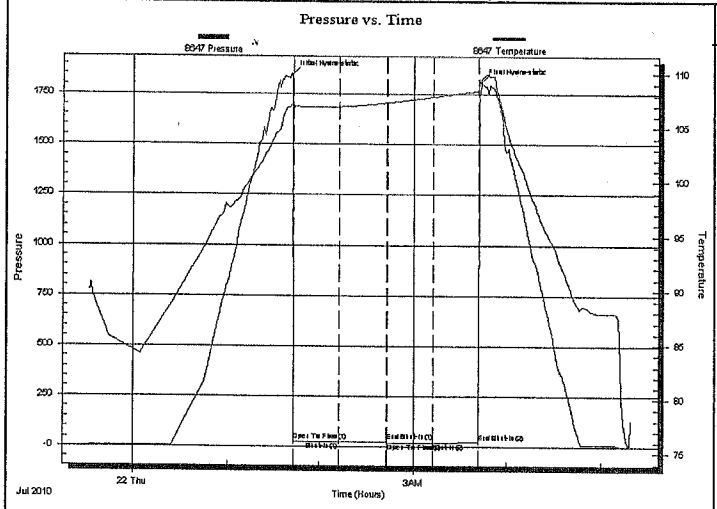
Reference Elevations: 2440.00 ft (KB)
2435.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 19.77 psig @ 3808.00 ft (KB)
Start Date: 2010.07.21 End Date: 2010.07.22
Start Time: 23:32:47 End Time: 05:19:11

Capacity: 8000.00 psig
Last Calib.: 2010.07.22
Time On Btm: 2010.07.22 @ 01:42:42
Time Off Btm: 2010.07.22 @ 03:43:42

TEST COMMENT: IFP - stg. sur blow - died 15 min.
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.14	107.28	Initial Hydro-static
1	26.93	106.38	Open To Flow (1)
30	22.96	106.94	Shut-In(1)
61	26.42	107.32	End Shut-In(1)
61	21.07	107.33	Open To Flow (2)
90	19.77	107.87	Shut-In(2)
119	22.50	108.44	End Shut-In(2)
121	1807.71	109.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%	0.01

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks 67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38972 **DST#: 4**

Test Start: 2010.07.21 @ 23:32:47

Tool Information

Drill Pipe:	Length:	3803.00 ft	Diameter:	3.60 inches	Volume:	47.88 bbl	Tool Weight:		2500.00 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:		50000.00 lb
					Total Volume:	47.88 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		19.00 ft					String Weight:	Initial	42000.00 lb
Depth to Top Packer:		3804.00 ft						Final	42000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		32.00 ft							
Tool Length:		52.00 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			3789.00		
Hydraulic tool	5.00			3794.00		
Packer	5.00			3799.00	20.00	Bottom Of Top Packer
Packer	5.00			3804.00		
Stubb	1.00			3805.00		
Perforations	3.00			3808.00		
Recorder	0.00	8647	Inside	3808.00		
Recorder	0.00	8371	Outside	3808.00		
Perforations	25.00			3833.00		
Bullnose	3.00			3836.00	32.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

PO Box 86
Plainville, Ks 67663

ATTN: Al Dow ning

Stowell 17-1

17 6 23 Graham KS

Job Ticket: 38972 **DST#: 4**

Test Start: 2010.07.21 @ 23:32:47

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:	6.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1500.00 ppm				
Filter Cake:	inches				

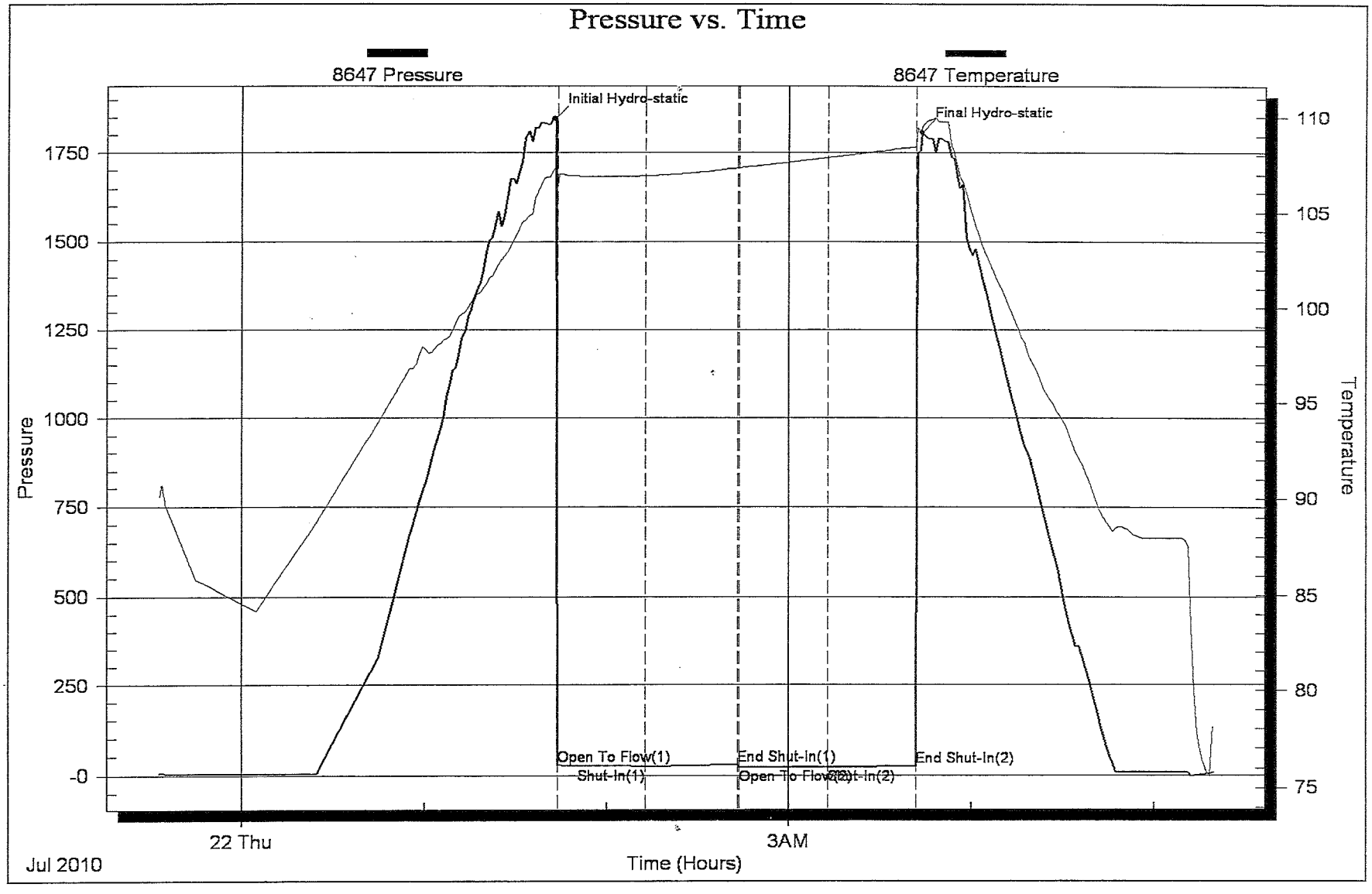
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%	0.013

Total Length: 1.00 ft Total Volume: 0.013 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8647 Pressure
8647 Temperature
Initial Hydro-static
Final Hydro-static
1750
1500
1250
1000
750
500
250
-0
Pressure
110
105
100
95
90
85
80
75
Temperature
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
22 Thu
3AM
Jul 2010
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 038969 14559

Well Name & No. Stowell 17-1 Test No. 1 Date 7-20-10

Company H&C Elevation 2440 KB 2435 GL

Address PO Box 86 Plainville, Ks 67663

Co. Rep / Geo. Al Downing Rig Am Eagle 3

Location: Sec. 17 Twp. 6 Rge. 23 Co. Graham State Ks

Interval Tested 3674-3703 Zone Tested LKC "A"

Anchor Length 29 Drill Pipe Run 3679 Mud Wt. 8.6

Top Packer Depth 3669 Drill Collars Run — Vis 58

Bottom Packer Depth 3674 Wt. Pipe Run — WL 6.0

Total Depth 3703 Chlorides 1400 ppm System LCM

Blow Description IFP- Stg. ser blow - died 17 min

ISI- no blow back

FFP- no blow

FSI- no blow back

Rec 3	Feet of OCM	%gas 20	%oil	%water 80	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 108 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1765	☐ Test 1125	T-On Location 0057	
(B) First Initial Flow 15	☐ Jars	T-Started 0301	
(C) First Final Flow 17	☐ Safety Joint	T-Open 0518	
(D) Initial Shut-In 141	☐ Circ Sub	T-Pulled 0718	
(E) Second Initial Flow 18	☐ Hourly Standby	T-Out 0844	
(F) Second Final Flow 20	☐ Mileage 157 FT 196.25	Comments 10' fill on bottom	
(G) Final Shut-In 45	☐ Sampler		
(H) Final Hydrostatic 1736	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total Ø	
Final Flow 30	☐ Day Standby	Total 1321.25	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1321.25		

Approved By ____ Our Representative Brian Fairbank

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 038970

Well Name & No. Stowell 17-1 Test No. 2 Date 7-20-10

Company H+C Elevation 2440 KB 2435 GL

Address

Co. Rep / Geo. Marc Downing Rig Am Eagle 3

Location: Sec. 17 Twp. 6 Rge. 23 Co. Graham State Ks

Interval Tested 3696-3720 Zone Tested LKC "C"

Anchor Length 24 Drill Pipe Run 3709 Mud Wt. 8.7

Top Packer Depth 3691 Drill Collars Run — Vis 53

Bottom Packer Depth 3696 Wt. Pipe Run — WL 6.0

Total Depth 3720 Chlorides 1400 ppm System LCM

Blow Description IFP- weak to Good blow surf- 7"

ISI- no blow back

FFP- weak to Fair blow surf- 5½"

FSI- no blow back

Rec 150	Feet of MW	%gas	%oil	85 %water	15 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 150 BHT 113 Gravity API RW .198 @ 76 °F Chlorides 34,000 ppm

(A) Initial Hydrostatic 1772	☑ Test 1125-	T-On Location 1444	
(B) First Initial Flow 22	☐ Jars	T-Started 1523	
(C) First Final Flow 48	☐ Safety Joint	T-Open 1725	
(D) Initial Shut-In 1263	☐ Circ Sub	T-Pulled 2025	
(E) Second Initial Flow 60	☐ Hourly Standby	T-Out 2215	
(F) Second Final Flow 91	☑ Mileage 167 RT 196.25	Comments	
(G) Final Shut-In 1254	☐ Sampler		
(H) Final Hydrostatic 1742	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 45	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 45	☐ Extra Recorder	Sub Total Ø	
Final Flow 45	☐ Day Standby	Total 1321.25	
Final Shut-In 45	☐ Accessibility	MP/DST Disc't	
	Sub Total 1321.25		

Approved By Our Representative Brian Fankhanel

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 038971

Well Name & No. Stowell 17-1 Test No. 3 Date 7-21-10

Company H+C Elevation 2440 KB 2435 GL

Address

Co. Rep / Geo. Marc Downing Rig Am Eagle 3

Location: Sec. 17 Twp. 6 Rge. 23 Co. Graham State Ks

Interval Tested 3716-3755 Zone Tested LKC "D-F"

Anchor Length 39 Drill Pipe Run 3710 Mud Wt. 8.9

Top Packer Depth 3711 Drill Collars Run — Vis 54

Bottom Packer Depth 3716 Wt. Pipe Run — WL 6.8

Total Depth 3755 Chlorides 1500 ppm System LCM

Blow Description IFP- BOB 6 min
ISI- no blow back
FFP- BOB 8 min
FSI- no blow back

Rec 145	Feet of MW	%gas	%oil	50 %water	50 %mud
Rec 555	Feet of MW	%gas	%oil	85 %water	15 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 700 BHT 117 Gravity API RW .185 @ 72 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic 1800	☐ Test 1125	T-On Location 0558
(B) First Initial Flow 29	☐ Jars	T-Started 0630
(C) First Final Flow 199	☐ Safety Joint	T-Open 0810
(D) Initial Shut-In 1212	☐ Circ Sub	T-Pulled 1040
(E) Second Initial Flow 209	☐ Hourly Standby	T-Out 1223
(F) Second Final Flow 339	☐ Mileage 157 RT 196.25	Comments
(G) Final Shut-In 1192	☐ Sampler	
(H) Final Hydrostatic 1739	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total Ø
Final Flow 30	☐ Day Standby	Total 1321.25
Final Shut-In 45	☐ Accessibility	MP/DST Disc't
	Sub Total 1321.25	

Approved By Our Representative Brian Fairbank

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 038972

Well Name & No. Stowell 17-1 Test No. 4 Date 7-21-10

Company H&C Elevation 2440 KB 2435 GL

Address

Co. Rep / Geo. Marc Downing Rig Am Eagle 3

Location: Sec. 17 Twp. 6 Rge. 23 Co. Graham State Ks

Interval Tested 3804-3836 Zone Tested LKC "I-J"

Anchor Length 32 Drill Pipe Run 3803 Mud Wt. 8.9

Top Packer Depth 3799 Drill Collars Run — Vis 54

Bottom Packer Depth 3804 Wt. Pipe Run — WL 6.8

Total Depth 3836 Chlorides 1500 ppm System LCM

Blow Description IFP- stg. sur blow- died 15 min

ISI- no blow back

FFP- no blow

FSI- no blow back

Rec 1	Feet of mud	%gas	%oil	%water 100	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 1 BHT 108 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1846	☐ Test 1125-	T-On Location 2245	
(B) First Initial Flow 27	☐ Jars	T-Started 2332	
(C) First Final Flow 23	☐ Safety Joint	T-Open 0146	
(D) Initial Shut-In 26	☐ Circ Sub	T-Pulled 0346	
(E) Second Initial Flow 21	☐ Hourly Standby	T-Out 0523	
(F) Second Final Flow 20	☐ Mileage 157 RT x 2 (2 Trips) 314 RT 392.50	Comments mileage to load tools	
(G) Final Shut-In 23	☐ Sampler		
(H) Final Hydrostatic 1794	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total Ø	
Final Flow 30	☐ Day Standby	Total 1517.50	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1517.50		

Approved By Our Representative Brian Fairbank (Hab)

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