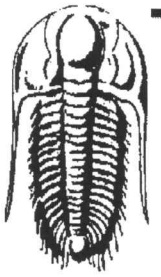


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castle Resources**

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

18-1N-32W Rawlins

Simminger #1

Start Date: 2004.02.13 @ 10:10:09
End Date: 2004.02.13 @ 14:45:54
Job Ticket #: 18066 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18066 **DST#: 1**

Test Start: 2004.02.13 @ 10:10:09

GENERAL INFORMATION:

Formation: **L/KC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:37:39
Time Test Ended: 14:45:54

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 3894.00 ft (KB) To 3945.00 ft (KB) (TVD)
Total Depth: 3945.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

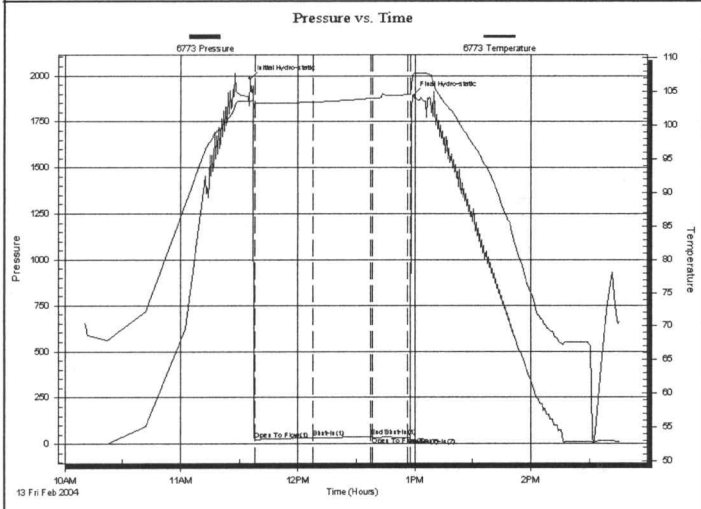
Reference Elevations: 2958.00 ft (KB)
2953.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6773 **Inside**

Press@RunDepth: 34.45 psig @ 3895.00 ft (KB)
Start Date: 2004.02.13 End Date: 2004.02.13
Start Time: 10:10:24 End Time: 14:45:54

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2004.02.13 @ 11:35:24
Time Off Btm: 2004.02.13 @ 12:59:24

TEST COMMENT: IF; Weak 1/4" blow died in 25 mins
FF; Nno return - flushed tool - intermitten blow f/5 mins TOH @ Co Orders



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.01	103.58	Initial Hydro-static
3	24.71	103.39	Open To Flow (1)
32	31.70	103.42	Shut-In(1)
62	37.42	104.01	End Shut-In(1)
63	36.24	104.00	Open To Flow (2)
81	34.45	104.55	Shut-In(2)
83	34.39	104.60	End Shut-In(2)
84	1893.17	107.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drlg. Mud	0.01

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18066 **DST#: 1**

Test Start: 2004.02.13 @ 10:10:09

Tool Information

Drill Pipe:	Length:	3396.00 ft	Diameter:	3.80 inches	Volume:	47.64 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	486.00 ft	Diameter:	2.25 inches	Volume:	2.39 bbl	
					Total Volume:	50.03 bbl	

Drill Pipe Above KB:	8.00 ft
Depth to Top Packer:	3894.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	51.00 ft
Tool Length:	71.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	70000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	62000.00 lb
Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3875.00		
Shut In Tool	5.00			3880.00		
Hydraulic tool	5.00			3885.00		
Packer	4.00			3889.00	20.00	Bottom Of Top Packer
Packer	5.00			3894.00		
Stubb	1.00			3895.00		
Recorder	0.00	6773	Inside	3895.00		
Perforations	12.00			3907.00		
Change Over Sub	1.00			3908.00		
Anchor	31.00			3939.00		
Change Over Sub	1.00			3940.00		
Recorder	0.00	13309	Outside	3940.00		
Bullnose	5.00			3945.00	51.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18066 **DST#: 1**

Test Start: 2004.02.13 @ 10:10:09

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	inches				

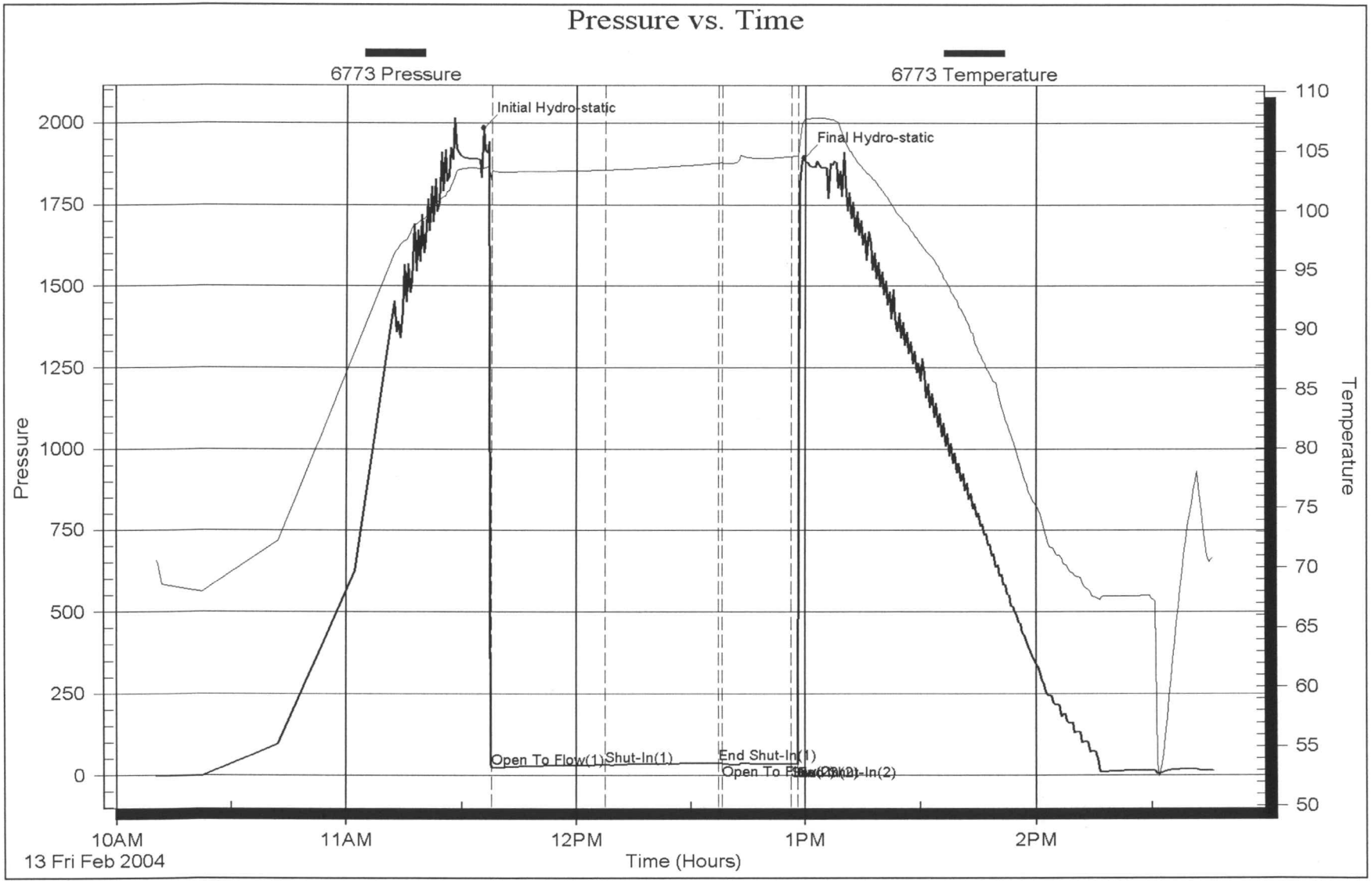
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drlg. Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

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


Pressure vs. Time
6773 Pressure
6773 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
65
60
55
50
10AM
11AM
12PM
1PM
2PM
13 Fri Feb 2004
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castle Resources**

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

18-1N-32W Rawlins

Simminger #1

Start Date: 2004.02.14 @ 01:50:34
End Date: 2004.02.14 @ 06:34:19
Job Ticket #: 18067 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18067 **DST#: 2**

Test Start: 2004.02.14 @ 01:50:34

GENERAL INFORMATION:

Formation: **L/KC "C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:31:49
Time Test Ended: 06:34:19

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 3940.00 ft (KB) To 4030.00 ft (KB) (TVD)
Total Depth: 4030.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

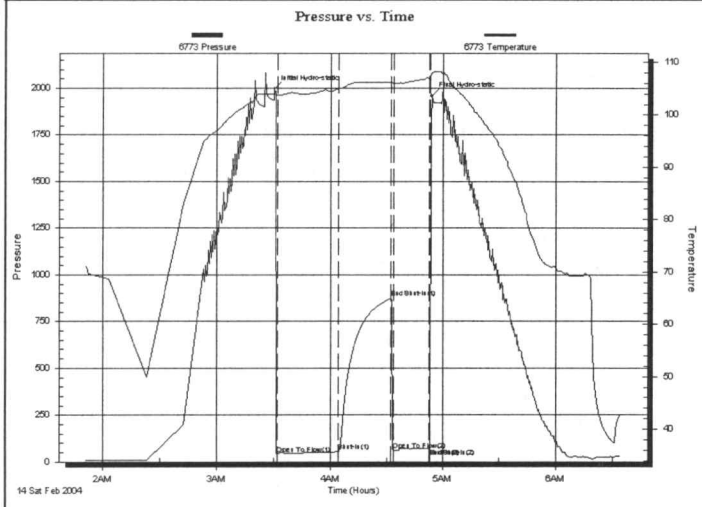
Reference Elevations: 2958.00 ft (KB)
2953.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6773 **Inside**

Press@RunDepth: 69.87 psig @ 3941.00 ft (KB)
Start Date: 2004.02.14 End Date: 2004.02.14
Start Time: 01:50:49 End Time: 06:34:19

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2004.02.14 @ 03:30:04
Time Off Btm: 2004.02.14 @ 04:53:49

TEST COMMENT: IF; Weak 1/4" blow decreased to surface
FF; No return - flushed tool - surface ablow died in 3 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.12	104.04	Initial Hydro-static
2	40.28	103.79	Open To Flow (1)
34	53.95	104.91	Shut-In(1)
62	874.32	106.21	End Shut-In(1)
64	62.38	105.93	Open To Flow (2)
83	69.87	106.98	Shut-In(2)
83	69.78	107.00	End Shut-In(2)
84	1959.12	107.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drlg. Mud	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18067 **DST#: 2**

Test Start: 2004.02.14 @ 01:50:34

Tool Information

Drill Pipe:	Length:	3460.00 ft	Diameter:	3.80 inches	Volume:	48.53 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	486.00 ft	Diameter:	2.25 inches	Volume:	2.39 bbl	
					Total Volume:	50.92 bbl	

Drill Pipe Above KB:	26.00 ft
Depth to Top Packer:	3940.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	90.00 ft
Tool Length:	110.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		70000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	62000.00 lb
	Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3921.00		
Shut In Tool	5.00			3926.00		
Hydraulic tool	5.00			3931.00		
Packer	4.00			3935.00	20.00	Bottom Of Top Packer
Packer	5.00			3940.00		
Stubb	1.00			3941.00		
Recorder	0.00	6773	Inside	3941.00		
Perforations	20.00			3961.00		
Change Over Sub	1.00			3962.00		
Anchor	62.00			4024.00		
Change Over Sub	1.00			4025.00		
Recorder	0.00	13309	Outside	4025.00		
Bullnose	5.00			4030.00	90.00	Bottom Packers & Anchor
Total Tool Length:	**110.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18067 **DST#: 2**

Test Start: 2004.02.14 @ 01:50:34

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

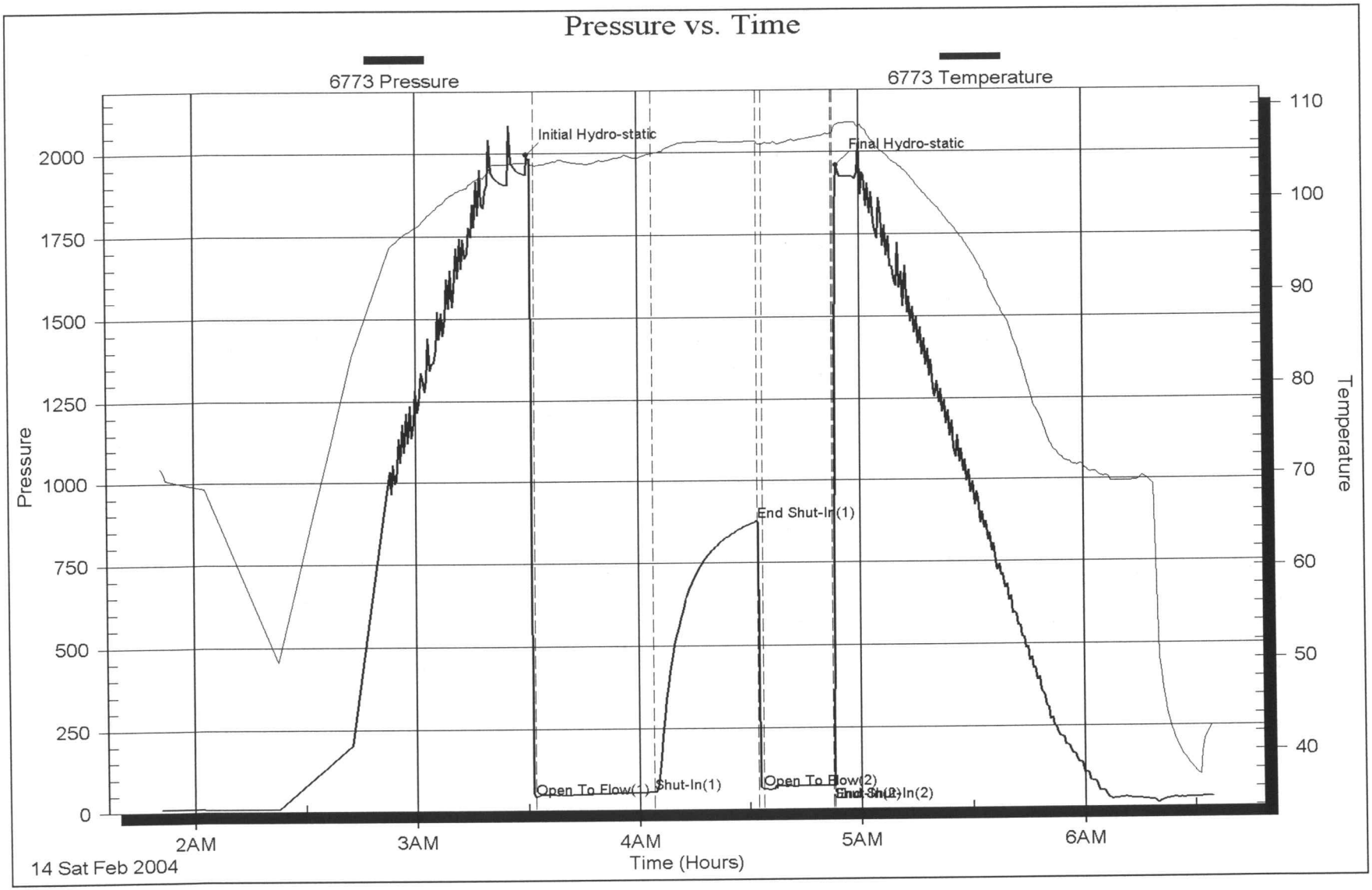
Length ft	Description	Volume bbl
60.00	Drlg. Mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6773 Pressure
6773 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
2AM
3AM
4AM
5AM
6AM
Time (Hours)
14 Sat Feb 2004

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castle Resources**

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

18-1N-32W Rawlins

Simminger #1

Start Date: 2004.02.14 @ 15:10:52

End Date: 2004.02.14 @ 20:20:22

Job Ticket #: 18067 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18067 **DST#: 3**

Test Start: 2004.02.14 @ 15:10:52

GENERAL INFORMATION:

Formation: **L/KC "E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:54:52
Time Test Ended: 20:20:22

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

Interval: 4030.00 ft (KB) To 4081.00 ft (KB) (TVD)
Total Depth: 4081.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

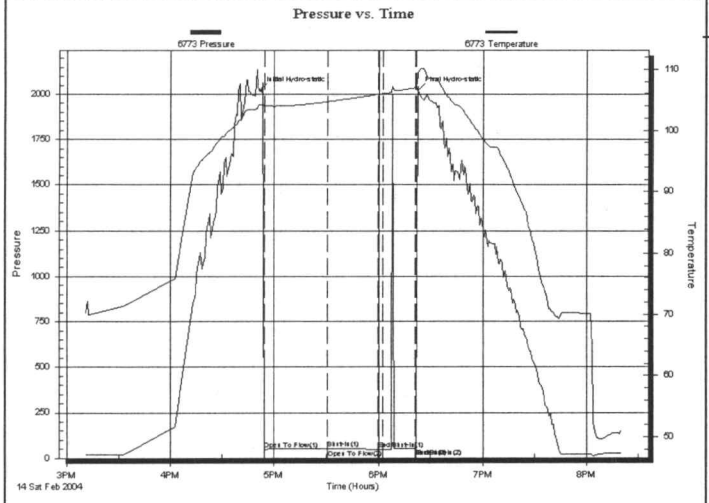
Reference Elevations: 2958.00 ft (KB)
2953.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6773 **Inside**

Press@RunDepth: 51.93 psig @ 4031.00 ft (KB)
Start Date: 2004.02.14 End Date: 2004.02.14
Start Time: 15:11:07 End Time: 20:20:22

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2004.02.14 @ 16:52:07
Time Off Btm: 2004.02.14 @ 18:22:37

TEST COMMENT: IF; Weak blow built to 1/4" then died at 35 mins
FF; No return - flushed tool/good surge - no blow TOH @ Co Orders



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.06	104.22	Initial Hydro-static
3	45.75	103.99	Open To Flow (1)
39	52.46	104.69	Shut-In(1)
68	48.64	105.91	End Shut-In(1)
71	47.83	106.01	Open To Flow (2)
89	51.93	106.95	Shut-In(2)
90	51.91	106.97	End Shut-In(2)
91	2021.65	109.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drlg. Mud	0.01

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18067 **DST#: 3**

Test Start: 2004.02.14 @ 15:10:52

Tool Information

Drill Pipe:	Length:	3552.00 ft	Diameter:	3.80 inches	Volume:	49.83 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:	486.00 ft	Diameter:	2.25 inches	Volume:	2.39 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	52.22 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		4030.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		51.00 ft							
Tool Length:		71.00 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			4011.00		
Shut In Tool	5.00			4016.00		
Hydraulic tool	5.00			4021.00		
Packer	4.00			4025.00	20.00	Bottom Of Top Packer
Packer	5.00			4030.00		
Stubb	1.00			4031.00		
Recorder	0.00	6773	Inside	4031.00		
Perforations	12.00			4043.00		
Change Over Sub	1.00			4044.00		
Anchor	31.00			4075.00		
Change Over Sub	1.00			4076.00		
Recorder	0.00	13309	Outside	4076.00		
Bullnose	5.00			4081.00	51.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

P O Box 87
Schoenchen KS 67667

ATTN: Jerry Green

Simminger #1

18-1N-32W Rawlins

Job Ticket: 18067 **DST#: 3**

Test Start: 2004.02.14 @ 15:10:52

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

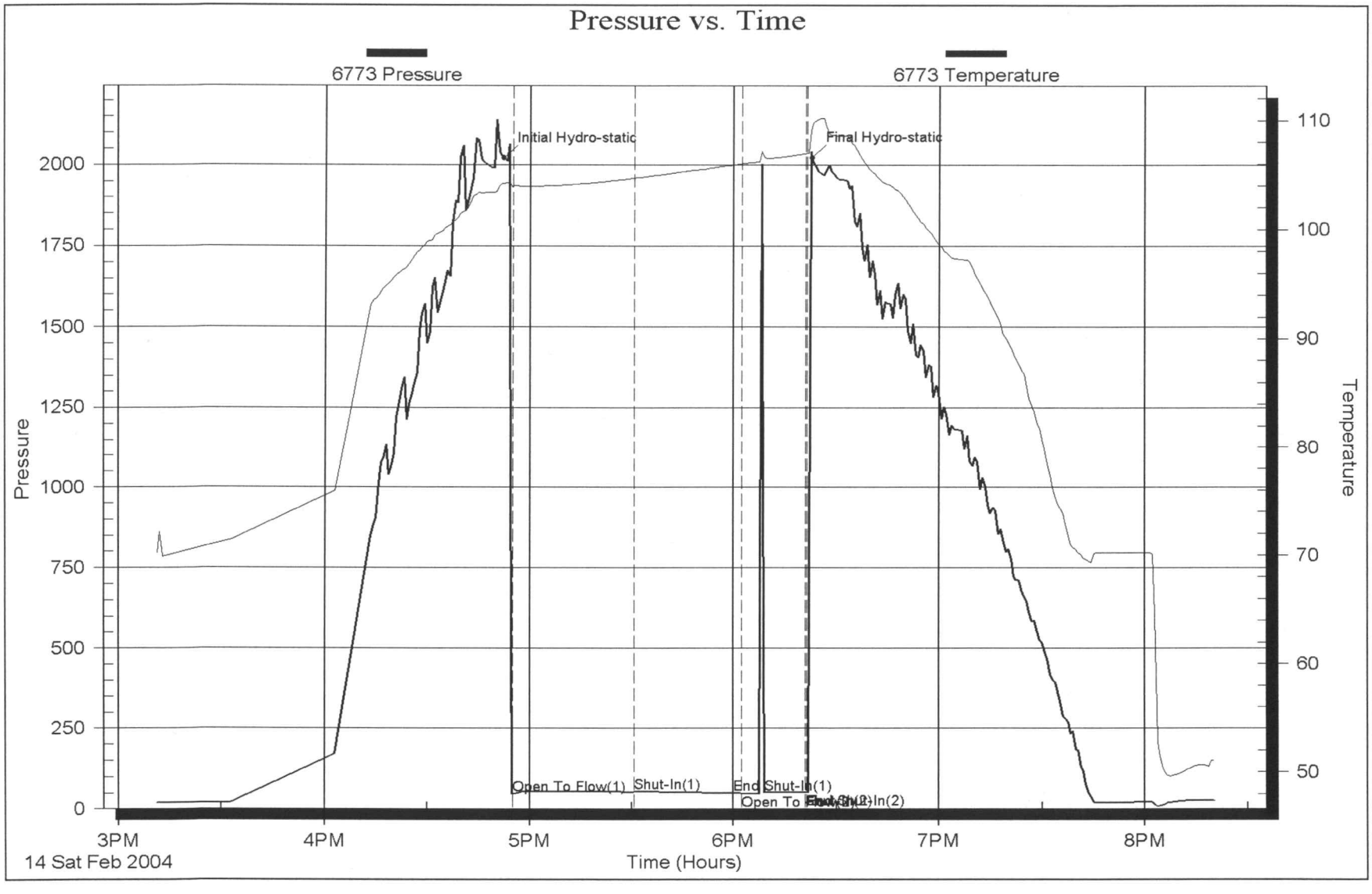
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drlg. Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

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


Pressure vs. Time
6773 Pressure
6773 Temperature
Initial Hydro-static
Final Hydro-static
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
3PM
4PM
5PM
6PM
7PM
8PM
14 Sat Feb 2004
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 6213

№ 18066

05/03

Test Ticket

Well Name & No. Simminger #1 Test No. 1 Date 2-13-04

Company Castle Resources Zone Tested L/KC 'B'

Address P.O. Box 87 Schoenchen KS. 67667 Elevation 2958 KB 2953 GL

Co. Rep / Geo. Jerry Green Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 18 Twp. 1 N Rge. 32 W Co. Rawlins State KS.

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3894 - 3945

Anchor Length 51'

Top Packer Depth 3889

Bottom Packer Depth 3894

Total Depth 3945

Mud Wt. 9.2 LCM — Vis. 56 WL 6.8

Initial Str Wt./Lbs. 62,000 Unseated Str Wt/Lbs. 62,000

Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000

Tool Weight 2,500

Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓

Wt. Pipe Run — Drill Collar Run 486'

Drill Pipe Size 4 1/2" XH Ft. Run _____

Blow Description IF: Weak 1/4" blow died in 25 mins.

FF: No return - flushed tool - intermitten blow f/ 5 mins.

TOH @ Co. Orders.

Recovery - Total Feet 2' GIP — Ft. in DC 2' Ft. in DP —

Rec. _____	Feet of _____	%gas	%oil	%water	%mud
Rec. _____	Feet of _____	%gas	%oil	%water	%mud
Rec. 2'	Feet of Drlg Mud	%gas	%oil	%water	%mud
Rec. _____	Feet of _____	%gas	%oil	%water	%mud
Rec. _____	Feet of _____	%gas	%oil	%water	%mud

BHT 104° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 700 ppm System

	AK-1	Alpine
(A) Initital Hydrostatic Mud		1983 PSI
(B) First Initial Flow Pressure		24 PSI
(C) First Final Flow Pressure		31 PSI
(D) Initial Shut-In Pressure		37 PSI
(E) Second Initial Flow Pressure		36 PSI
(F) Second Final Flow Pressure		34 PSI
(G) Final Shut-In Pressure		34 PSI
(Q) Final Hydrostatic Mud		1893 PSI

Recorder No.	6773
(depth)	3895
Recorder No.	13309
(depth)	3940
Recorder No.	
(depth)	
Initial Opening	30
Initial Shut-In	30
Final Flow	15
Final Shut-In	—
T-On Location	0630
T-Started	1010
T-Open	1137
T-Pulled	1257
T-Out	1445
T-Off	1530

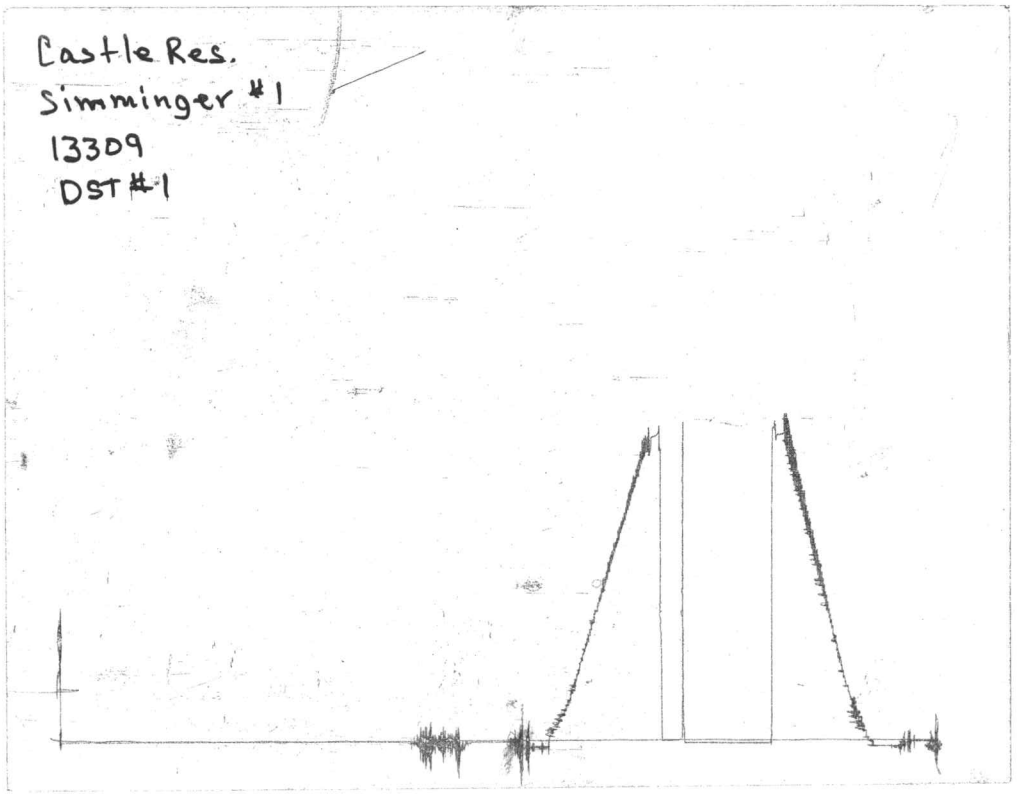
Test	
Elec. Rec.	X
Jars	
Safety Jt.	
Circ Sub	X N/C
Sampler	
Straddle	
Ext. Packer	
Shale Packer	
Mileage	1 way 120
Sub Total:	1054.00
Std. By	X 3 @ 30 90.00
Other	
Total:	1144.00

Approved By _____

Our Representative Rod Steinbrink

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601

05/03

№ 18067

Test Ticket

Well Name & No. Simminger #1 Test No. 2 Date 2-14-04

Company Castle Resources Zone Tested L/KC 'C-D'

Address P.O. Box 87 Schoenchen KS. 67667 Elevation 2958 KB 2953 GL

Co. Rep / Geo. Jerry Green Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 18 Twp. 1 N Rge. 32 W Co. Rawlins State KS.

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3940 - 4030 Initial Str Wt./Lbs. 62,000 Unseated Str Wt/Lbs. 62,000

Anchor Length 90' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000

Top Packer Depth 3935 Tool Weight 2,500

Bottom Packer Depth 3940 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 4030 Wt. Pipe Run — Drill Collar Run 486'

Mud Wt. 9.2 LCM — Vis. 50 WL 6.8 Drill Pipe Size _____ Ft. Run 3460'

Blow Description IF: Weak ½" blow decreased to surface.

FF: No return - flushed tool - surface blow died in 3 mins.

Recovery - Total Feet 60' GIP — Ft. in DC 60' Ft. in DP —

Rec. _____ Feet of _____ %gas %oil %water %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

Rec. 60' Feet of Drlg. Mud. %gas %oil %water %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

Rec. _____ Feet of _____ %gas %oil %water %mud

BHT 107° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 700 ppm System

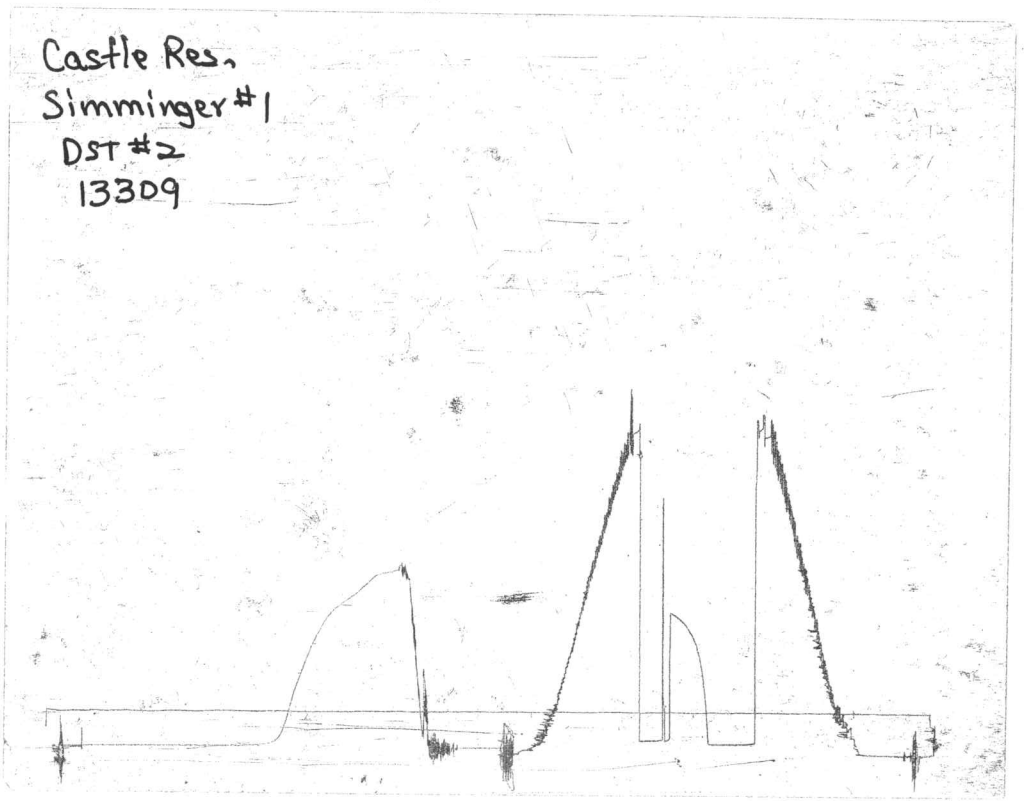
	AK-1	Alpine				
(A) Initital Hydrostatic Mud		1995 PSI	Recorder No.	6773	Test	
(B) First Initial Flow Pressure		40 PSI	(depth)	3941	Elec. Rec.	X
(C) First Final Flow Pressure		53 PSI	Recorder No.	13309	Jars	
(D) Initial Shut-In Pressure		874 PSI	(depth)	4025	Safety Jt.	
(E) Second Initial Flow Pressure		62 PSI	Recorder No.		Circ Sub	X N/C
(F) Second Final Flow Pressure		69 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		69 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		1959 PSI	Initial Shut-In	30	Ext. Packer	
			Final Flow	15	Shale Packer	
			Final Shut-In	—	Mileage	1 way 20
			T-On Location	0100	Sub Total:	984
			T-Started	0150	Std. By	
			T-Open	0331	Other	
			T-Pulled	0452	Total:	
			T-Out	0634		

Approved By _____

Our Representative Rod Steinbrink

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 18068

Test Ticket

Well Name & No. Simminger #1 Test No. 3 Date 2-14-04

Company Castle Resources Zone Tested L/KC 'E'

Address P.O. Box 87 Schoenchen KS. 67667 Elevation 2958 KB 2953 GL

Co. Rep / Geo. Jerry Green Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 18 Twp. 1N Rge. 32W Co. Rawlins. State KS.

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4030 - 4081 Initial Str Wt./Lbs. 60,000 Unseated Str Wt/Lbs. 60,000

Anchor Length 51' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000

Top Packer Depth 4026 Tool Weight 2,500

Bottom Packer Depth 4030 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 4081 Wt. Pipe Run — Drill Collar Run 486'

Mud Wt. 9.2 LCM _____ Vis. 52 WL 9.0 Drill Pipe Size 4 1/2" XH Ft. Run 3552'

Blow Description IF: Weak blow built to 1/4" then died at 35 mins

FF: No return - flushed tool / good surge - no blow

TOH @ Co. Orders

Recovery - Total Feet 2' GIP — Ft. in DC 2' Ft. in DP —

Rec.	Feet of	%gas	%oil	%water	%mud	
Rec.	Feet of	%gas	%oil	%water	%mud	
Rec. 2'	Feet of Drlg. Mud	%gas	%oil	%water	%mud	
Rec.	Feet of	%gas	%oil	%water	%mud	
Rec.	Feet of	%gas	%oil	%water	%mud	

BHT 106° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 800 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud		2020 PSI	Recorder No.	6793	Test		
(B) First Initial Flow Pressure		45 PSI	(depth)	4031	Elec. Rec.	X	
(C) First Final Flow Pressure		52 PSI	Recorder No.	13309	Jars		
(D) Initial Shut-In Pressure		48 PSI	(depth)	4076	Safety Jt.		
(E) Second Initial Flow Pressure		47 PSI	Recorder No.		Circ Sub	X N/C	
(F) Second Final Flow Pressure		51 PSI	(depth)		Sampler		
(G) Final Shut-In Pressure		51 PSI	**Initial Opening**	30	Straddle		
(Q) Final Hydrostatic Mud		2021 PSI	Initial Shut-In	30	Ext. Packer		
			Final Flow	15	Shale Packer		
			Final Shut-In	—	Mileage	1 way 20	984
			T-On Location	1430	Sub Total:		
			T-Started	1508	Std. By		
			T-Open	1654	Other		
			T-Pulled	1821	Total:		
			T-Out	2020			
			T-On	2130			

Approved By _____

Our Representative Rod Steinbrink

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart