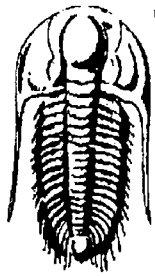


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **DNOC**

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

20-13-21-Trego-Ks

Doug Egger # 1-20

Start Date: 2004.05.11 @ 13:40:01
End Date: 2004.05.11 @ 20:59:31
Job Ticket #: 19285 DST #: 1

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

DRILL STEM TEST REPORT

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Doug Egger # 1-20

20-13-21-Trego-Ks

Job Ticket: 19285 **DST#: 1**

Test Start: 2004.05.11 @ 13:40:01

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:43:31
Time Test Ended: 20:59:31

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: 4005.00 ft (KB) To 4037.00 ft (KB) (TVD)
Total Depth: 4037.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

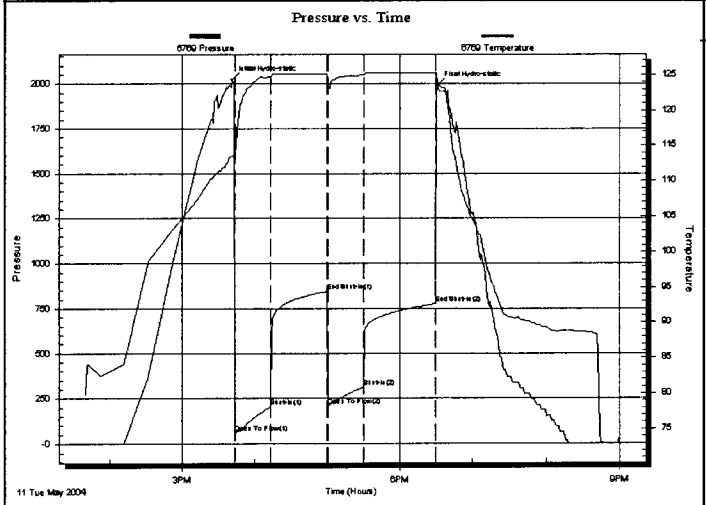
Reference Elevations: 2306.00 ft (KB)
2298.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6769 **Inside**

Press@RunDepth: 312.95 psig @ 4006.00 ft (KB)
Start Date: 2004.05.11 End Date: 2004.05.11
Start Time: 13:40:02 End Time: 20:59:31

Capacity: 7000.00 psig
Last Calib.: 2004.05.11
Time On Btm: 2004.05.11 @ 15:41:01
Time Off Btm: 2004.05.11 @ 18:31:01

TEST COMMENT: IF-Strong B-B in 3 min
ISI-Strong B-B in 20 min
FF-Strong B-B in 7 min
FSI-Weak building to 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.53	113.52	Initial Hydro-static
3	61.95	113.72	Open To Flow (1)
32	206.76	124.71	Shut-In(1)
79	845.33	125.11	End Shut-In(1)
80	212.27	123.28	Open To Flow (2)
109	312.95	124.97	Shut-In(2)
169	775.97	125.25	End Shut-In(2)
170	1988.52	123.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	OCWtr 10%o 90%w	2.32
185.00	Frothy O	2.60
420.00	CGsyO 30%g 70%o	5.89
0.00	760 GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Doug Egger # 1-20

20-13-21-Trego-Ks

Job Ticket: 19285 **DST#: 1**

Test Start: 2004.05.11 @ 13:40:01

Tool Information

Drill Pipe:	Length:	3978.00 ft	Diameter:	3.80 inches	Volume:	55.80 bbl	Tool Weight:	1800.00 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	55.95 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight: Initial	48000.00 lb
Depth to Top Packer:		4005.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		32.00 ft						
Tool Length:		53.00 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			3985.00		
Shut In Tool	5.00			3990.00		
Hydraulic tool	5.00			3995.00		
Packer	5.00			4000.00	21.00	Bottom Of Top Packer
Packer	5.00			4005.00		
Stubb	1.00			4006.00		
Recorder	0.00	6769	Inside	4006.00		
Perforations	28.00			4034.00		
Recorder	0.00	13254	Outside	4034.00		
Bullnose	3.00			4037.00	32.00	Bottom Packers & Anchor
Total Tool Length:	**53.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Doug Egger # 1-20

20-13-21-Trego-Ks

Job Ticket: 19285 **DST#: 1**

Test Start: 2004.05.11 @ 13:40:01

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	39 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

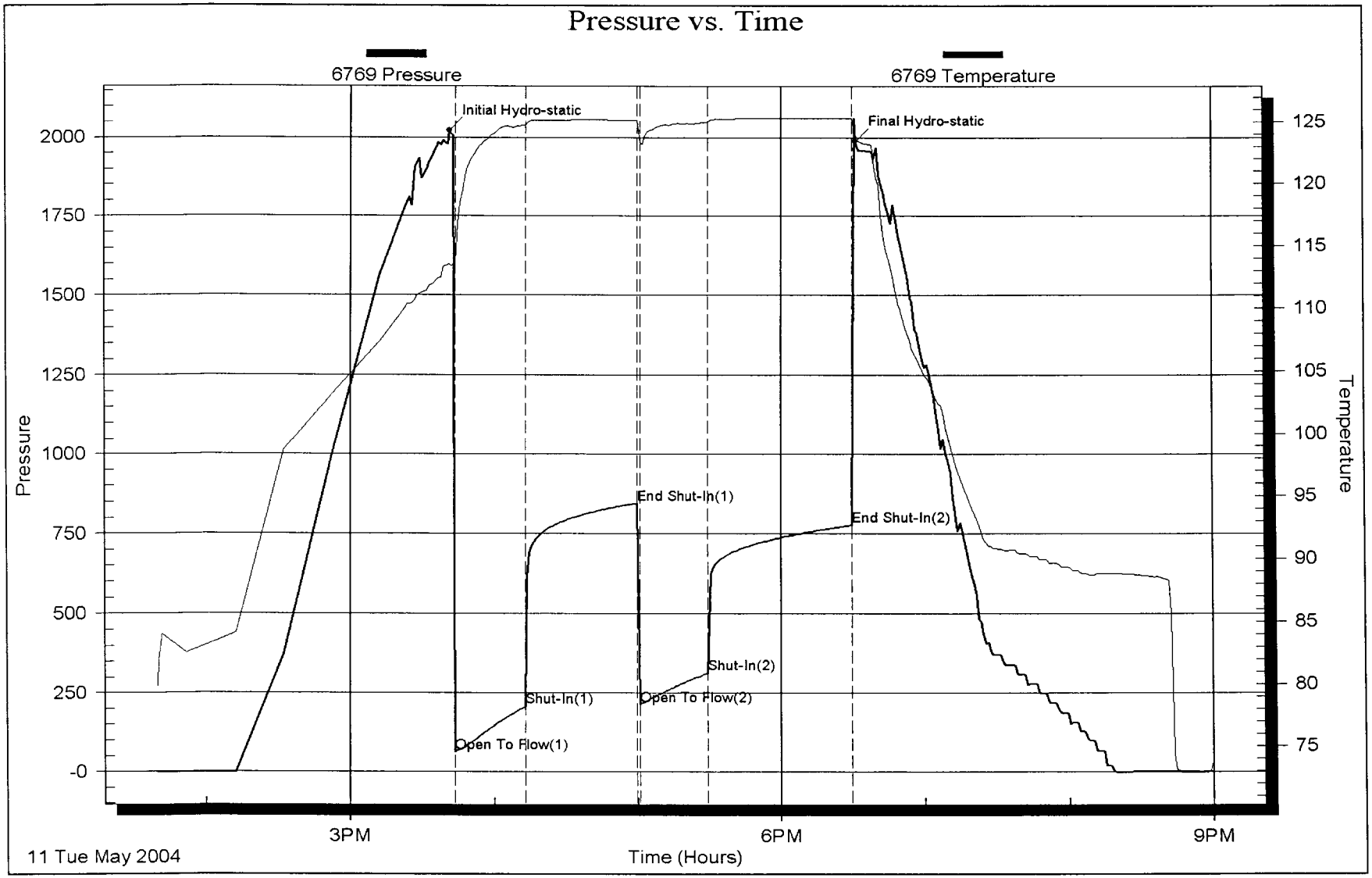
Recovery Information

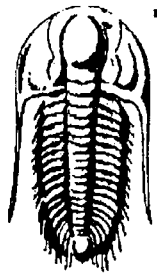
Recovery Table

Length ft	Description	Volume bbl
185.00	OCWtr 10%o 90%w	2.322
185.00	Frothy O	2.595
420.00	CGsyO 30%g 70%o	5.891
0.00	760 GIP	0.000

Total Length: 790.00 ft Total Volume: 10.808 bbl

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


Pressure vs. Time
6769 Pressure
6769 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
2000
1750
1500
1250
1000
750
500
250
-0
125
120
115
110
105
100
95
90
85
80
75
3PM
6PM
9PM
11 Tue May 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **DNOC**

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

20-13-21-Trego-Ks

Doug Egger # 1-20

Start Date: 2004.05.12 @ 05:35:38

End Date: 2004.05.12 @ 12:17:08

Job Ticket #: 19286 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Doug Egger # 1-20

20-13-21-Trego-Ks

Job Ticket: 19286 **DST#: 2**

Test Start: 2004.05.12 @ 05:35:38

GENERAL INFORMATION:

Formation: **Cong Sd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:11:38
Time Test Ended: 12:17:08

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: 4027.00 ft (KB) To 4077.00 ft (KB) (TVD)
Total Depth: 4077.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

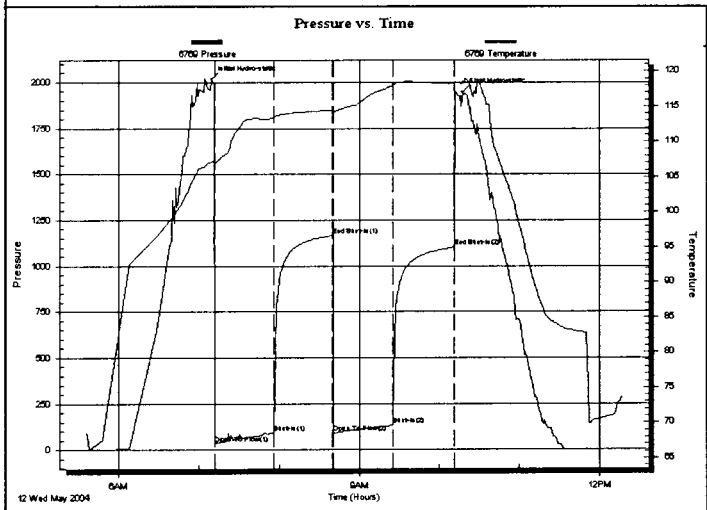
Reference Elevations: 2306.00 ft (KB)
2298.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6769 **Inside**

Press@RunDepth: 131.99 psig @ 4032.00 ft (KB)
Start Date: 2004.05.12 End Date: 2004.05.12
Start Time: 05:35:39 End Time: 12:17:08

Capacity: 7000.00 psig
Last Calib.: 2004.05.12
Time On Btm: 2004.05.12 @ 07:09:08
Time Off Btm: 2004.05.12 @ 10:17:08

TEST COMMENT: IF-Weak building to 6 1/2"
FF-Weak building to 1"
Times-45-45-45-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.95	107.13	Initial Hydro-static
3	33.71	106.88	Open To Flow (1)
47	88.86	113.50	Shut-In(1)
91	1164.84	114.47	End Shut-In(1)
92	90.15	114.25	Open To Flow (2)
136	131.99	117.93	Shut-In(2)
182	1101.26	118.25	End Shut-In(2)
188	1944.41	118.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Mdy Wtr	2.32
75.00	DM	1.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Doug Egger # 1-20

20-13-21-Trego-Ks

Job Ticket: 19286 **DST#: 2**

Test Start: 2004.05.12 @ 05:35:38

Tool Information

Drill Pipe:	Length:	4008.00 ft	Diameter:	3.80 inches	Volume:	56.22 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	56.37 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		4027.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		50.00 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			4007.00		
Shut In Tool	5.00			4012.00		
Hydraulic tool	5.00			4017.00		
Packer	5.00			4022.00	21.00	Bottom Of Top Packer
Packer	5.00			4027.00		
Stubb	1.00			4028.00		
Perforations	3.00			4031.00		
Change Over Sub	1.00			4032.00		
Recorder	0.00	6769	Inside	4032.00		
Drill Pipe	31.00			4063.00		
Change Over Sub	1.00			4064.00		
Recorder	0.00	13254	Outside	4064.00		
Perforations	10.00			4074.00		
Bullnose	3.00			4077.00	50.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Doug Egger # 1-20

20-13-21-Trego-Ks

Job Ticket: 19286 **DST#: 2**

Test Start: 2004.05.12 @ 05:35:38

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

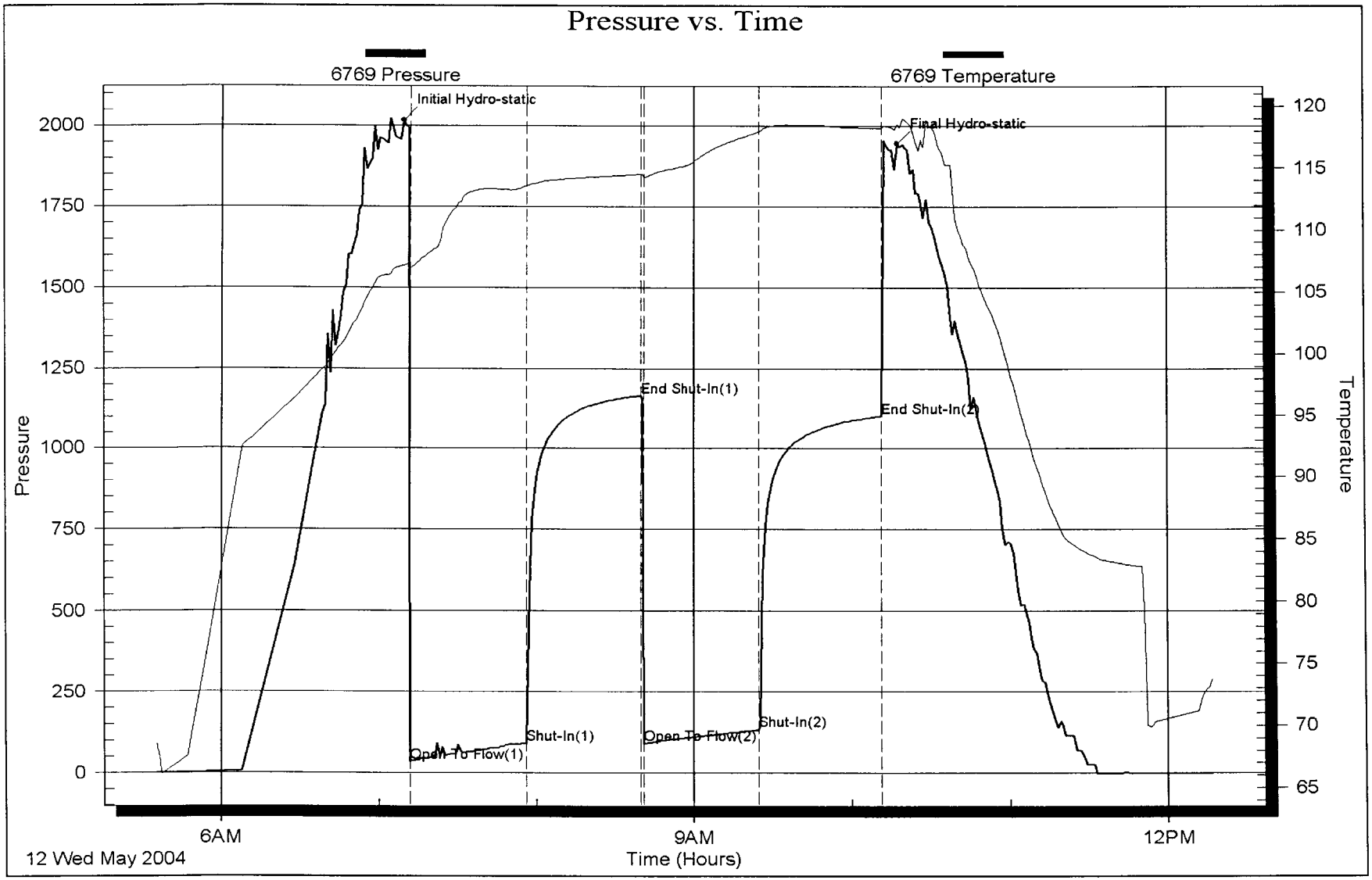
Length ft	Description	Volume bbl
185.00	Mdy Wtr	2.322
75.00	DM	1.052

Total Length: 260.00 ft Total Volume: 3.374 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6769 Pressure
6769 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
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
65
6AM
9AM
12PM
12 Wed May 2004
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

T 11N R 21W

No. 19285

05/03

Test Ticket

Well Name & No. Doug Egger #1-20 Test No. 1 Date 5-11-04

Company Downing-Nelson Oil Co. Inc Zone Tested Marmaton

Address P.O. Box 372, Hays, Ks. 67601 Elevation 2306 KB 2298 GL

Co. Rep / Geo. Ron Nelson Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 20 Twp. 13 Rge. 21 Co. Trego State Ks

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

Interval Tested 4005 — 4037 Initial Str Wt./Lbs. 48,000 Unseated Str Wt/Lbs. 50,000

Anchor Length 32 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 4000 Tool Weight 1800

Bottom Packer Depth 4005 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 4037 Wt. Pipe Run _____ Drill Collar Run 30

Mud Wt. 8.9 LCM _____ Vis. 52 WL 7.2 Drill Pipe Size 4.5 XH Ft. Run 3978

Blow Description I.F. Strong B-B in 3 min.
ISI - Strong B-B in 20 min.
F.F - Strong - B-B in 7 min.
FSI - Weak - building

Recovery - Total Feet 790 GIP 760 Ft. in DC 30 Ft. in DP 760

Rec. 420	Feet of C&O	30 %gas	%oil	%water	%mud
Rec. 185	Feet of Frothy Oil	%gas	%oil	%water	%mud
Rec. 185	Feet of OCWTR	%gas	10 %oil	90 %water	%mud
Rec. _____	Feet of _____	%gas	%oil	%water	%mud
Rec. _____	Feet of _____	%gas	%oil	%water	%mud

BHT 125 °F Gravity _____ °API D @ _____ °F Corrected Gravity 39 °API

RW .14 @ 76 °F Chlorides 49000 ppm Recovery _____ Chlorides 3000 ppm System

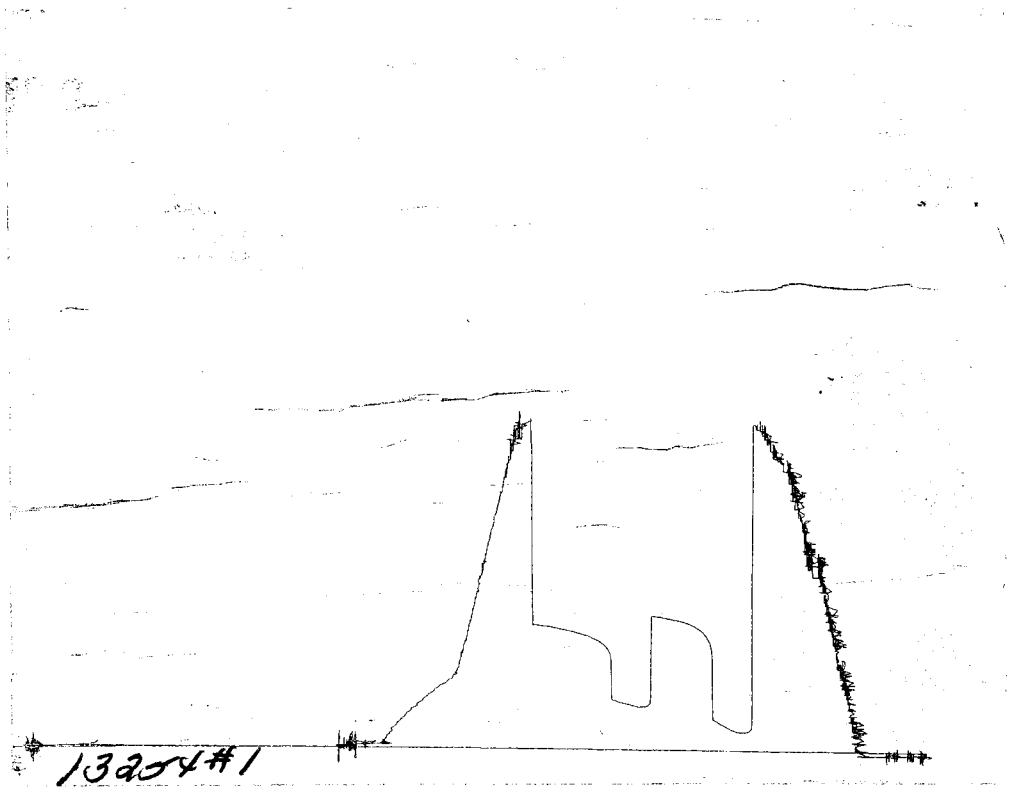
	AK-1	Alpine				
(A) Initital Hydrostatic Mud		2022 PSI	Recorder No.	6769	Test	800
(B) First Initial Flow Pressure		61 PSI	(depth)	4006	Elec. Rec.	X 1500
(C) First Final Flow Pressure		206 PSI	Recorder No.	13225	Jars	
(D) Initial Shut-In Pressure		845 PSI	(depth)	4034	Safety Jt.	
(E) Second Initial Flow Pressure		212 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure		312 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		775 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		1988 PSI	Initial Shut-In	45	Ext. Packer	
			Final Flow	30	Shale Packer	
			Final Shut-In	60	Mileage	22 37.40
			T-On Location	12:45	Sub Total:	987.40
			T-Started	13:40	Std. By	
			T-Open	15:42	Other	
			T-Pulled	18:27	Total:	
			T-Out	20:59		

Approved By _____

Our Representative Dan Bangle

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

No. 19286

Test Ticket

Well Name & No. Doug Egger #1-20 Test No. 2 Date 5-12-04

Company Downing-Nelson Oil Co. Inc Zone Tested Conq Sd

Address _____ Elevation 2306 KB 2298 GL

Co. Rep / Geo. Ron Nelson Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 20 Twp. 13 Rge. 21 Co. Trego State KS

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

Interval Tested 4027 — 4077 Initial Str Wt./Lbs. 48,000 Unseated Str Wt/Lbs. 48,000

Anchor Length 50 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 4022 Tool Weight 1500

Bottom Packer Depth 4027 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 4077 Wt. Pipe Run _____ Drill Collar Run 30

Mud Wt. 9.4 LCM _____ Vis. 46 WL 8.4 Drill Pipe Size 4.5 XH Ft. Run 4008

Blow Description I.F. weak-building to 6½"

F.F. Weak-building to 1"

Recovery - Total Feet 260 GIP _____ Ft. in DC 30 Ft. in DP 230

Rec. 75	Feet of D.M	%gas	%oil	%water	%mud
Rec. 185	Feet of Mdy WTR	%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

BHT 118 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		2065 PSI	Recorder No.	6769	Test	
(B) First Initial Flow Pressure		33 PSI	(depth)	4032	Elec. Rec.	X
(C) First Final Flow Pressure		88 PSI	Recorder No.	13254	Jars	
(D) Initial Shut-In Pressure		1164 PSI	(depth)	4064	Safety Jt.	
(E) Second Initial Flow Pressure		90 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure		131 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		1101 PSI	**Initial Opening**	45	Straddle	
(Q) Final Hydrostatic Mud		1944 PSI	Initial Shut-In	45	Ext. Packer	
			Final Flow	45	Shale Packer	
			Final Shut-In	45	Mileage	22
			T-On Location	05:20	Sub Total:	(971.00)
			T-Started	05:35	Std. By	
			T-Open	07:10	Other	
			T-Pulled	10:10	Total:	
			T-Out	12:17		

Approved By _____

Our Representative Don Bangle

CHART PAGE

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