

DRILL STEM TEST REPORT

Prepared For: **Nadel and Gussman LLC**

15 E 5th St. Suite 3200
Tulsa Ok. 74103

ATTN: Chuck Coday

31/32/42

Edward 1-31

Start Date: 2005.05.05 @ 02:45:37

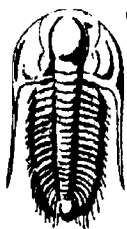
End Date: 2005.05.05 @ 16:08:52

Job Ticket #: 22482 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.

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Test Start: 2005.05.05 @ 02:45:37

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 07:01:37

Time Test Ended: 16:08:52

Test Type: **Conventional Straddle**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **4874.00 ft (KB) To 4950.00 ft (KB) (TVD)**

Total Depth: **5101.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **3560.00 ft (KB)**

3548.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: **6769**

Inside

Press@RunDepth: **233.18 psig @ 4949.00 ft (KB)**

Start Date: **2005.05.05**

End Date:

2005.05.05

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **02:45:39**

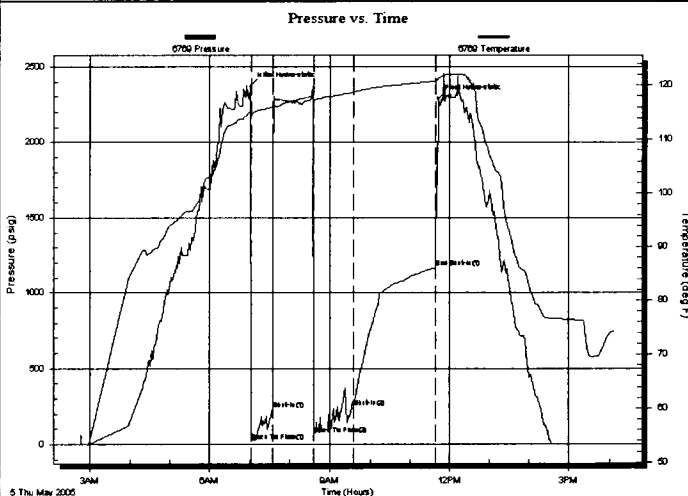
End Time:

16:08:52

Time On Btm: **2005.05.05 @ 07:00:37**

Time Off Btm: **2005.05.05 @ 11:42:37**

TEST COMMENT: **F** few bubbles to no blow
Ff- no blow



PRESSURE SUMMARY

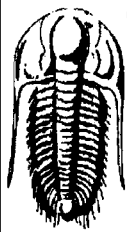
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2372.77	114.93	Initial Hydro-static
1	21.80	114.55	Open To Flow (1)
34	233.18	116.02	Shut-In(1)
95	63.26	117.14	Open To Flow (2)
155	245.26	118.74	Shut-In(2)
278	1166.36	120.76	End Shut-In(1)
282	2290.21	121.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	100% mud.	0.98

Gas Rates

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

Nadel and Gussman LLC

Edward 1-31

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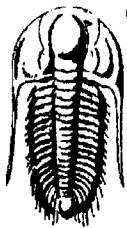
Test Start: 2005.05.05 @ 02:45:37

Tool Information

Drill Pipe:	Length: 4211.00 ft	Diameter: 3.80 inches	Volume: 59.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 647.00 ft	Diameter: 2.25 inches	Volume: 3.18 bbl	Weight to Pull Loose: 170000.0 lb
			Total Volume: 62.25 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4874.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	4950.00 ft			
Interval between Packers:	76.00 ft			
Tool Length:	262.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:
Sampler Data- 200ml 100% mud @ 1100 psi.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	2.00			4845.00	
Shut In Tool	5.00			4850.00	
Sampler	3.00			4853.00	
Hydraulic tool	5.00			4858.00	
Jars	5.00			4863.00	
Safety Joint	2.00			4865.00	
Packer	5.00			4870.00	31.00 Bottom Of Top Packer
Packer	4.00			4874.00	
Stubb	1.00			4875.00	
Recorder	0.00	16770	Inside	4875.00	
Perforations	1.00			4876.00	
Change Over Sub	1.00			4877.00	
Drill Pipe	62.00			4939.00	
Change Over Sub	1.00			4940.00	
Perforations	9.00			4949.00	
Recorder	0.00	6769	Inside	4949.00	
Blank Off Sub	1.00			4950.00	76.00 Tool Interval
Packer	5.00			4955.00	
Change Over Sub	1.00			4956.00	
Drill Pipe	124.00			5080.00	
Change Over Sub	1.00			5081.00	
Perforations	20.00			5101.00	
Recorder	0.00	13849	Outside	5101.00	
Bullnose	4.00			5105.00	155.00 Bottom Packers & Anchor
Total Tool Length:		262.00			



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FLUID SUMMARY

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Edward 1-31

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Tulsa Ok. 74103

31/32/42

Job Ticket: 22482

DST#: 1

ATTN: Chuck Coday

Test Start: 2005.05.05 @ 02:45:37

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.97 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
200.00	100% mud.	0.984

Total Length: 200.00 ft

Total Volume: 0.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6769

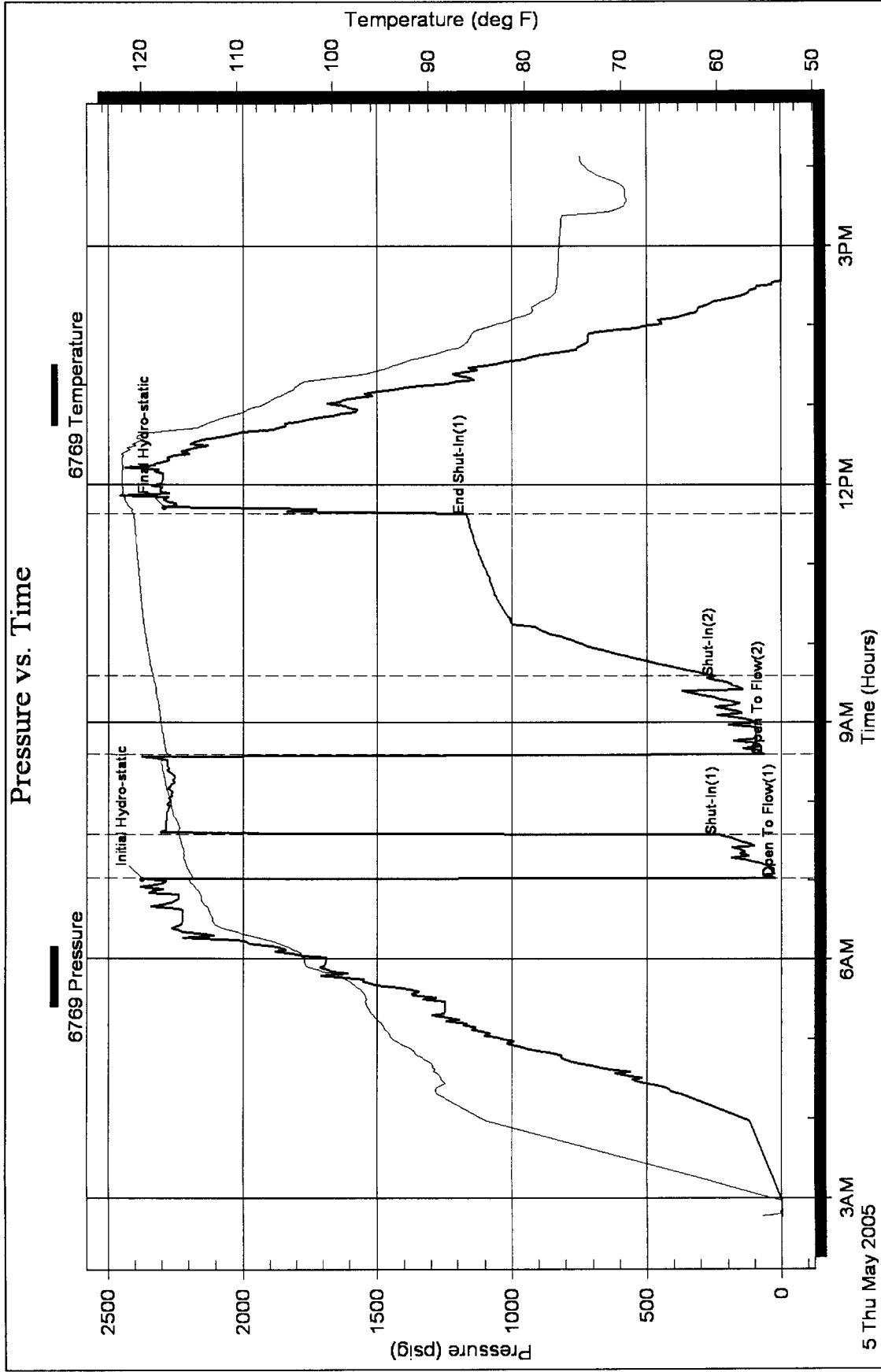
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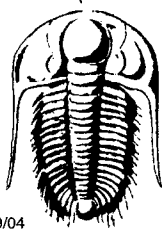
Nadel and Gussman LLC

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DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9/04

TW
7479

No 22482

Test Ticket

Well Name & No. Edward 1-31 Test No. 1 Date 5-5-05
 Company Nadel and Gussman LLC Zone Tested _____
 Address 13 E 5th St. Suite 3200 Tulsa OK 74103 Elevation 3560 KB 3548 GL _____
 Co. Rep / Geo. Chuck Coday Cont. Cheyenne #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 31 Twp. 32 Rge. 42 Co. Morton State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4874 - 4950 Initial Str Wt./Lbs. 88K Unseated Str Wt./Lbs. 88K
 Anchor Length 76 Wt. Set Lbs. 35K Wt. Pulled Loose/Lbs. 170K
 Top Packer Depth 4869 Tool Weight 2000
 Bottom Packer Depth 4874 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 5101 Wt. Pipe Run 0 Drill Collar Run 647
 Mud Wt. 9.1 LCM 14# Vis. 55 WL 10 Drill Pipe Size 4.5 in Ft. Run 4211
 Blow Description IF - Few bubbles every so often, to No blow.
ISI - No blow back. Tool slowly slid 5' set back down and went on with test.
FI - No blow
FSI - No blow back

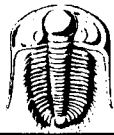
Recovery - Total Feet 200 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 200 Feet of _____ %gas _____ %oil _____ %water 100 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 121 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides all points gone ppm System

	AK-1	Alpine	Recorder No.		Test
(A) Initial Hydrostatic Mud	2373	PSI	6769		1150 ⁰⁰ 1050
(B) First Initial Flow Pressure	22	PSI	(depth) 4870		Jars 200 ⁰⁰ 200
(C) First Final Flow Pressure	233	PSI	Recorder No. 13012		Safety Jt. 50 ⁰⁰ 50
(D) Initial Shut-In Pressure		PSI	(depth) 4950		Circ Sub
(E) Second Initial Flow Pressure	63	PSI	Recorder No. 11018		Sampler 200 ⁰⁰ 200
(F) Second Final Flow Pressure	154	PSI	(depth) 5101		Straddle 250 ⁰⁰ 250
(G) Final Shut-In Pressure	1166	PSI	Initial Opening 30		Ext. Packer 150 ⁰⁰ 150
(Q) Final Hydrostatic Mud	2290	PSI	Initial Shut-In 60		Shale Packer 150 ⁰⁰ 150
			Final Flow 60		Ruined Packer 500 ⁰⁰ 500
			Final Shut-In 120		Mileage 86 ⁰⁰ 86
			T-On Location 200 AM		Sub Total: 20360
			T-Started 400 AM		Std. By 4 1/2 = 150 ⁰⁰ 120
			T-Open 7:38 AM		Other Acc. 150 ⁰⁰ 90
			T-Pulled 1230 PM		Total: 30360
			T-Out 1030		\$2996

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Chuck Coday

Our Representative Harley Anderson



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P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 22482 Date 5-5-05
Company Name Nadel and Gossman LLC
Lease Edward 1-31 Test No. 1
County Morton Sec. 31 Twp. 32 Rng. 42

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 200 ML
Water 0 ML
Other _____ ML
Pressure 1100 PSI ML
Total _____ ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
Resistivity _____ ohms @ _____ F
Viscosity 55
Mud Weight 9.1
Filtrate 10
Other LCM 14#

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @60F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

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

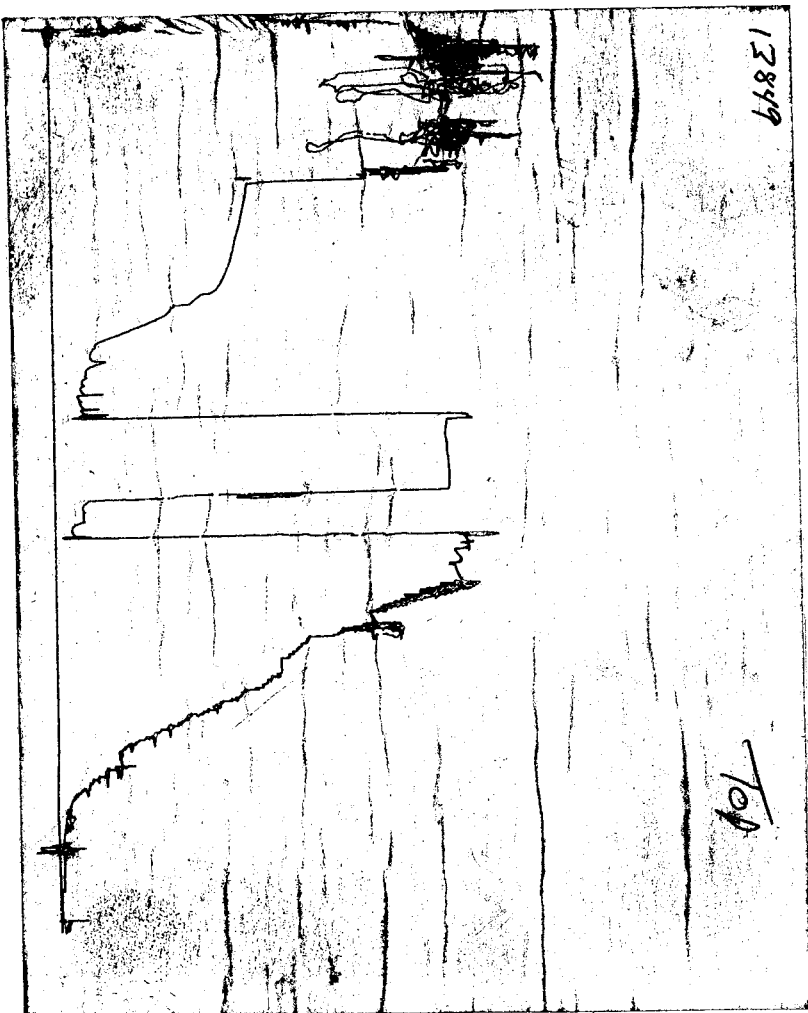


CHART PAGE

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

