

DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

33 12s 1'7w Ellis KS

Harold Schmeidler #3

Start Date: 2004.05.25 @ 10:05:37

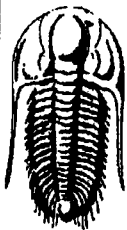
End Date: 2004.05.25 @ 15:58:37

Job Ticket #: 19294 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Grady Bolding Corp

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

Harold Schmeidler #3

33 12s 1'7w Ellis KS

Job Ticket: 19294

DST#: 1

Test Start: 2004.05.25 @ 10:05:37

GENERAL INFORMATION:

Formation: **Lansing**

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

Time Tool Opened: 11:28:07

Time Test Ended: 15:58:37

Test Type: **Conventional Bottom Hole**

Tester: **Paul Simpson**

Unit No: **20**

Interval: **3385.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Total Depth: **3460.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2096.00 ft (KB)**

2091.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: **74.20 psig @ 3394.00 ft (KB)**

Start Date: **2004.05.25**

End Date:

2004.05.25

Start Time: **10:05:38**

End Time:

15:58:37

Capacity: **7000.00 psig**

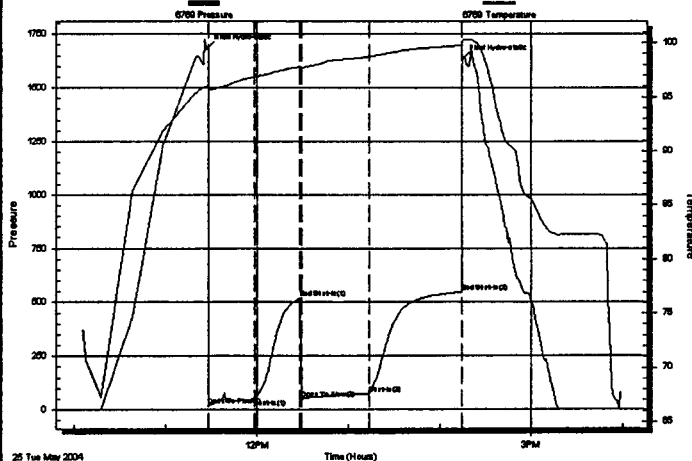
Last Calib.: **2004.03.02**

Time On Btm: **2004.05.25 @ 11:27:07**

Time Off Btm: **2004.05.25 @ 14:15:07**

TEST COMMENT: IF- 1/2" blow building to bottom of bucket 28 minutes.
IS- surface blow
FF- 1" blow building to bottom of bucket in 11 minutes
FSI 1" blow

Pressure vs. Time



PRESSURE SUMMARY

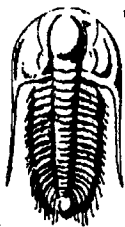
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.82	96.00	Initial Hydro-static
1	17.65	95.63	Open To Flow (1)
32	49.34	96.84	Shut-In (1)
62	518.73	97.79	End Shut-In (1)
63	48.07	97.71	Open To Flow (2)
107	74.20	98.70	Shut-In (2)
167	547.27	99.74	End Shut-In (2)
168	1636.67	100.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gsy W & MCO 35%G 50%O 10%W 5%M 0.84	0.84
80.00	gsy mco 5%G 60%O 5%W 30%M	1.12
20.00	gsy O 10%G 90%O	0.28
0.00	240' Gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 17w Ellis KS

Job Ticket: 19294

DST#: 1

ATTN: Grady Bolding

Test Start: 2004.05.25 @ 10:05:37

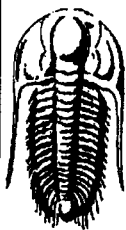
Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	47.44 bbl	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3385.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	96.00 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			3365.00	
Shut In Tool	5.00			3370.00	
Hydraulic tool	5.00			3375.00	
Packer	5.00			3380.00	21.00 Bottom Of Top Packer
Packer	5.00			3385.00	
Stubb	1.00			3386.00	
Perforations	7.00			3393.00	
Change Over Sub	1.00			3394.00	
Recorder	0.00	6769	Inside	3394.00	
Drill Pipe	62.00			3456.00	
Change Over Sub	1.00			3457.00	
Recorder	0.00	13254	Outside	3457.00	
Bullnose	3.00			3460.00	75.00 Bottom Packers & Anchor

Total Tool Length: 96.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 17w Ellis KS

Job Ticket: 19294

DST#: 1

ATTN: Grady Bolding

Test Start: 2004.05.25 @ 10:05:37

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 11.16 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbl

psig

Oil API:

Water Salinity:

30 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gsy W & MCO 35%G 50%O 10%W 5%M	0.842
80.00	gsy mco 5%G 60%O 5%W 30%M	1.122
20.00	gsy O 10%G 90%O	0.281
0.00	240' Gas in pipe	0.000

Total Length: 160.00 ft

Total Volume: 2.245 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32@80

DST Test Number: 1

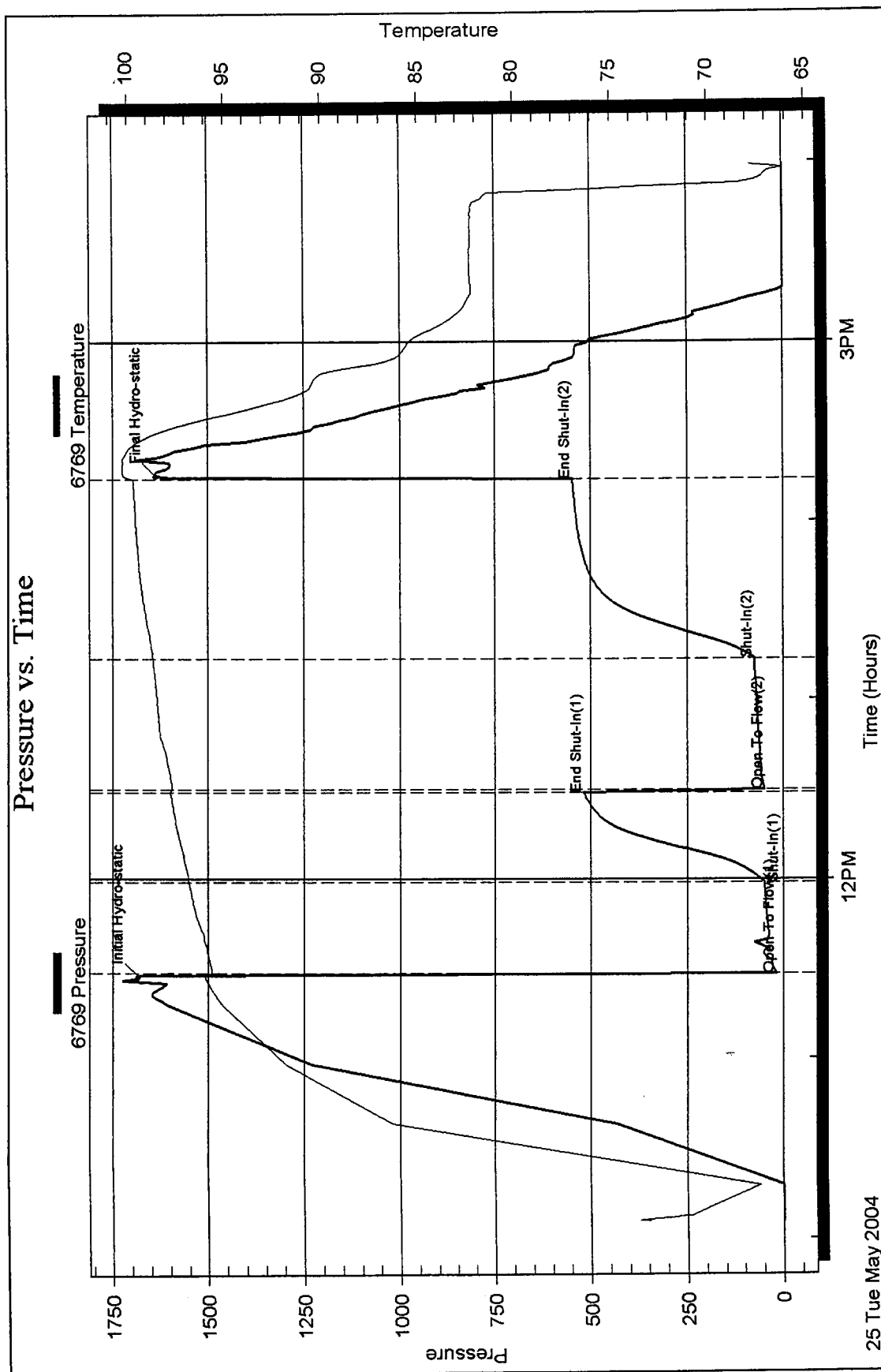
33 12s 1'7w Ellis KS

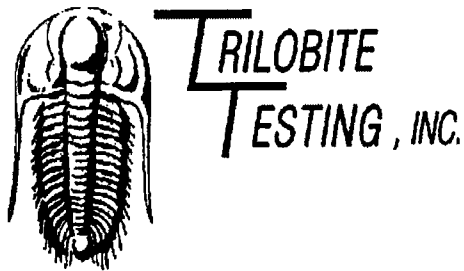
Grady Bolding Corp

Inside

Serial #: 6769

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

33 12s 17w Ellis KS

Harold Schmeidler #3

Start Date: 2004.05.26 @ 02:44:35

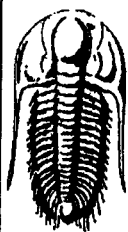
End Date: 2004.05.26 @ 09:17:05

Job Ticket #: 19295 DST #: 2

Trilobite Testing, Inc

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grady Bolding Corp

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

Harold Schmeidler #3

33 12s 17w Ellis KS

Job Ticket: 19295

DST#: 2

Test Start: 2004.05.26 @ 02:44:35

GENERAL INFORMATION:

Formation: **LKC K**

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

Time Tool Opened: 04:07:05

Time Test Ended: 09:17:05

Interval: **3502.00 ft (KB) To 2575.00 ft (KB) (TVD)**

Total Depth: **3460.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Paul Simpson**

Unit No: **20**

Reference Elevations: **2096.00 ft (KB)**

2091.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: **23.58 psig @ 3509.00 ft (KB)**

Start Date: **2004.05.26**

End Date: **2004.05.26**

Capacity: **7000.00 psig**

Last Calib.: **2004.03.24**

Start Time: **02:44:38**

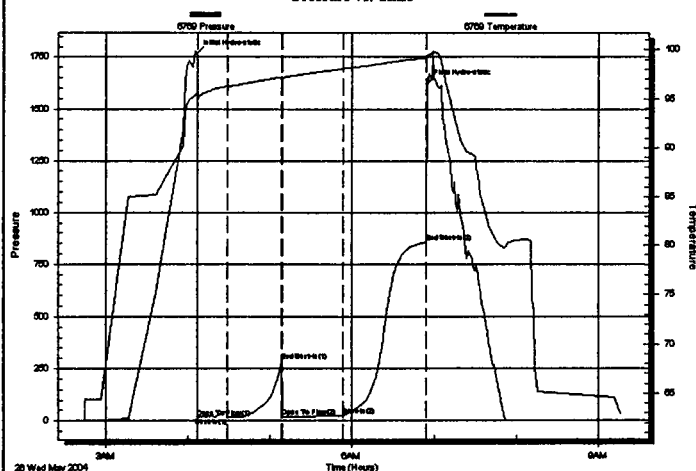
End Time: **09:17:05**

Time On Btm: **2004.05.26 @ 04:06:05**

Time Off Btm: **2004.05.26 @ 06:54:35**

TEST COMMENT: **F- weak 1/8" blow building to 3/4"**
FF- 1/2" blow building to 7"
FSI- surface blow

Pressure vs. Time



26 Wed May 2004

Time (Hours)

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.15	95.48	Initial Hydro-static
1	15.22	94.82	Open To Flow (1)
23	14.20	96.23	Shut-In (1)
63	288.79	97.18	End Shut-In (1)
64	17.48	97.14	Open To Flow (2)
108	23.58	98.01	Shut-In (2)
168	856.38	99.10	End Shut-In (2)
169	1622.00	99.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 20% Oil 80% Mud	0.35
5.00	clean oil	0.07
0.00	90' gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 17w Ellis KS

Job Ticket: 19295

DST#: 2

ATTN: Grady Bolding

Test Start: 2004.05.26 @ 02:44:35

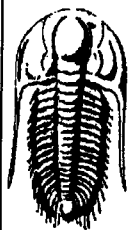
Tool Information

Drill Pipe:	Length: 3504.00 ft	Diameter: 3.80 inches	Volume: 49.15 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 49.15 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3502.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	94.00 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			3482.00	
Shut In Tool	5.00			3487.00	
Hydraulic tool	5.00			3492.00	
Packer	5.00			3497.00	21.00 Bottom Of Top Packer
Packer	5.00			3502.00	
Stubb	1.00			3503.00	
Perforations	5.00			3508.00	
Change Over Sub	1.00			3509.00	
Recorder	0.00	6769	Inside	3509.00	
Drill Pipe	62.00			3571.00	
Change Over Sub	1.00			3572.00	
Recorder	0.00	13254	Outside	3572.00	
Bullnose	3.00			3575.00	73.00 Bottom Packers & Anchor

Total Tool Length: 94.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 1"7w Ellis KS

Job Ticket: 19295

DST#: 2

ATTN: Grady Bolding

Test Start: 2004.05.26 @ 02:44:35

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: 11.16 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
25.00	OCM 20% Oil 80% Mud	0.351
5.00	clean oil	0.070
0.00	90' gas in pipe	0.000

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

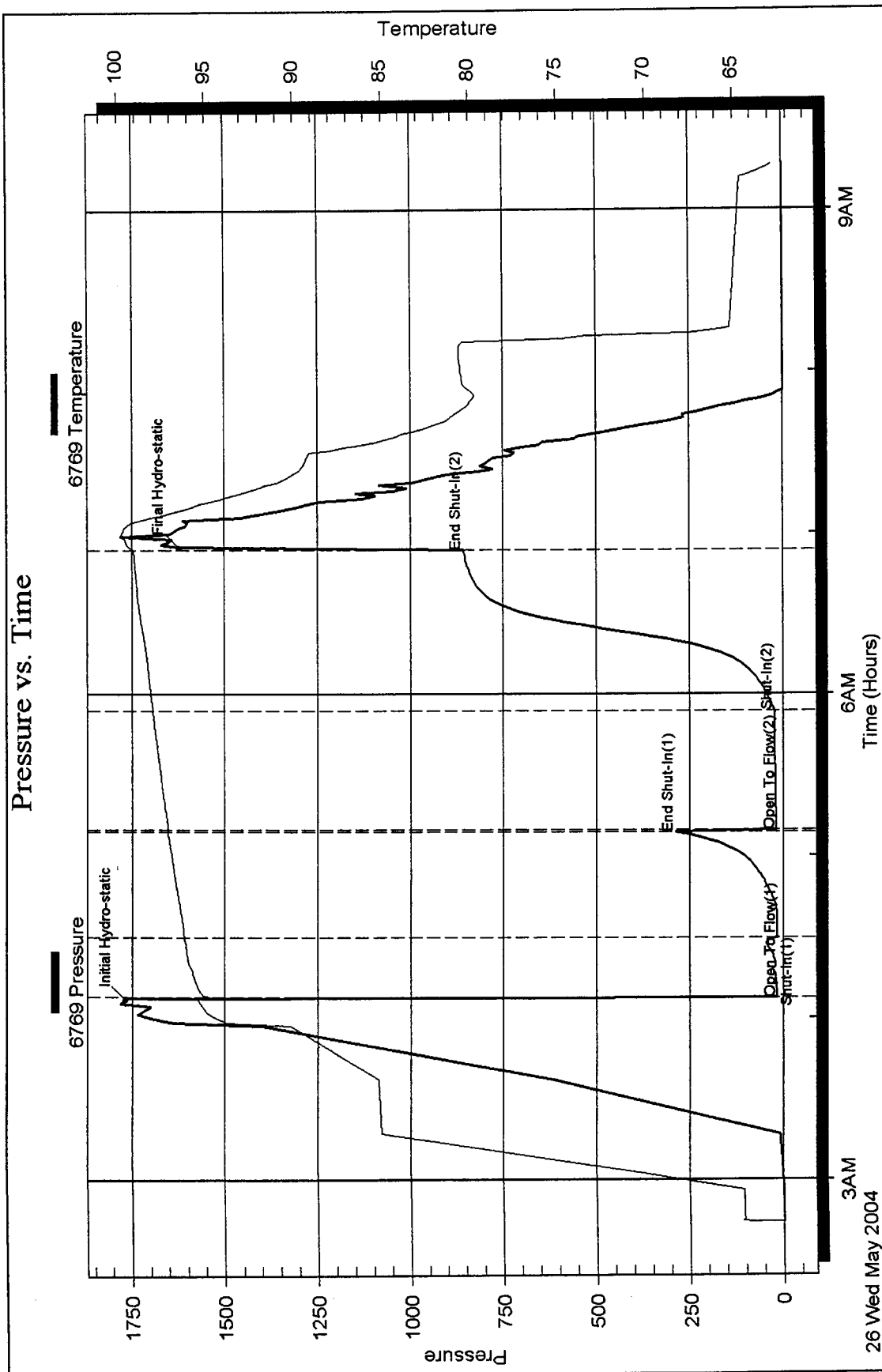
Num Gas Bombs: 0

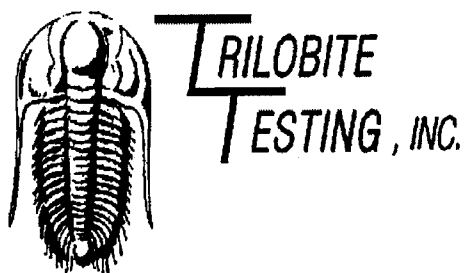
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

33 12s 17w Ellis KS

Harold Schmeidler #3

Start Date: 2004.05.26 @ 17:41:48

End Date: 2004.05.26 @ 23:29:18

Job Ticket #: 19296 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grady Bolding Corp

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

Harold Schmeidler #3

33 12s 17w Ellis KS

Job Ticket: 19296

DST#: 3

Test Start: 2004.05.26 @ 17:41:48

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:10:18

Time Test Ended: 23:29:18

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 21

Interval: 3587.00 ft (KB) To 3626.00 ft (KB) (TVD)

Total Depth: 3460.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2096.00 ft (KB)

2091.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 86.15 psig @ 3591.00 ft (KB)

Start Date: 2004.05.26

End Date:

2004.05.26

Start Time: 17:41:51

End Time:

23:29:18

Capacity: 7000.00 psig

Last Calib.: 2004.03.24

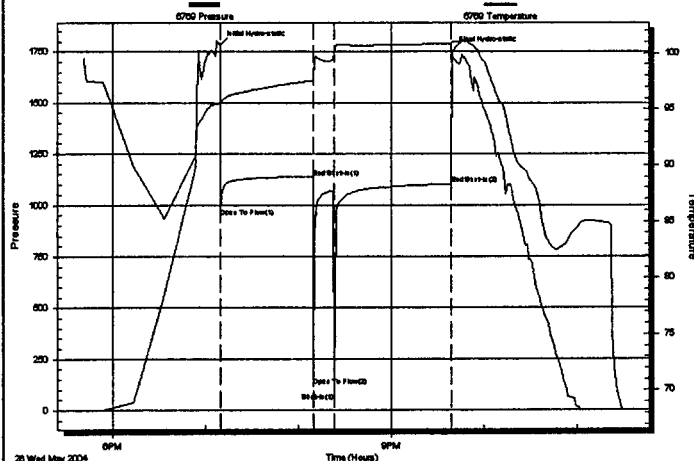
Time On Btm: 2004.05.26 @ 19:09:48

Time Off Btm: 2004.05.26 @ 21:39:18

TEST COMMENT: IF- 1/2" blow built to 1" then decreased to surface blow at end of IF

FF- 1/2" blow building to 3" then decreasing-- flushed tool- good surge - 4" blow decreasing to 1" blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1785.19	95.51	Initial Hydro-static
1	940.93	95.52	Open To Flow (1)
60	1133.38	97.55	End Shut-In (1)
61	115.54	97.62	Open To Flow (2)
74	86.15	100.05	Shut-In (1)
149	1102.16	100.84	End Shut-In (2)
150	1753.63	101.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud	0.42
25.00	SOCM 15% O 85%M	0.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 1'7w Ellis KS

Job Ticket: 19296

DST#: 3

ATTN: Grady Bolding

Test Start: 2004.05.26 @ 17:41:48

Tool Information

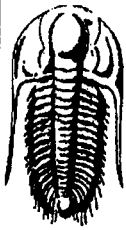
Drill Pipe:	Length: 3597.00 ft	Diameter: 3.80 inches	Volume: 50.46 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 50.46 bbl		Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3587.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	21.00 Bottom Of Top Packer
Packer	5.00			3587.00	
Stubb	1.00			3588.00	
Perforations	2.00			3590.00	
Change Over Sub	1.00			3591.00	
Recorder	0.00	6769	Inside	3591.00	
Drill Pipe	31.00			3622.00	
Change Over Sub	1.00			3623.00	
Recorder	0.00	13254	Outside	3623.00	
Bullnose	3.00			3626.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 17w Ellis KS

Job Ticket: 19296

DST#: 3

ATTN: Grady Bolding

Test Start: 2004.05.26 @ 17:41:48

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: 9.98 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
30.00	mud	0.421
25.00	SOCM 15% O 85%M	0.351

Total Length: 55.00 ft

Total Volume: 0.772 bbl

Num Fluid Samples: 0

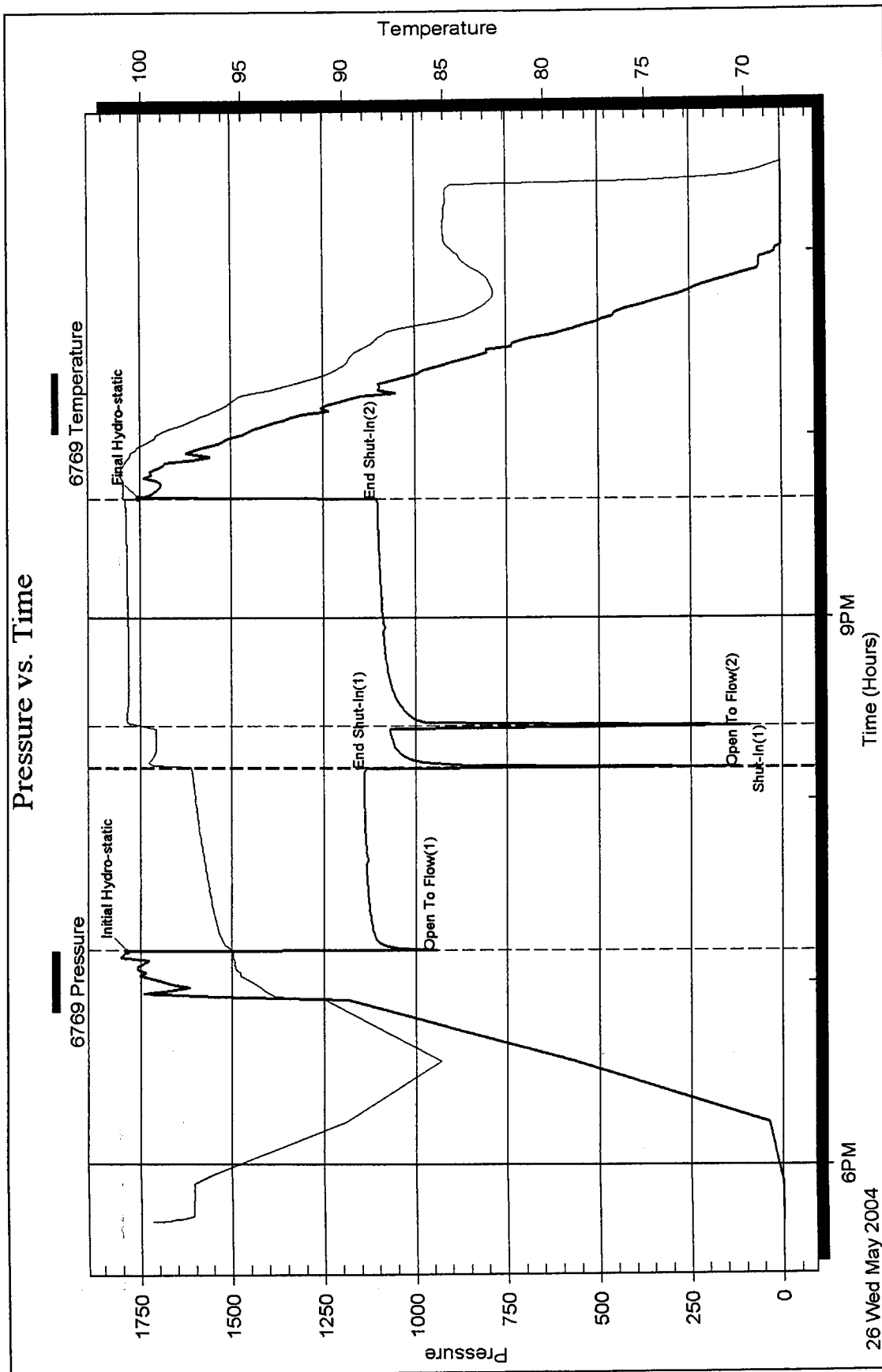
Num Gas Bombs: 0

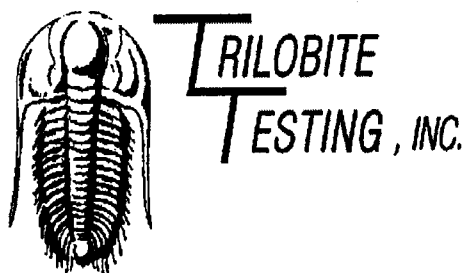
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: plugged tool





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

33 12s 17w Ellis KS

Harold Schmeidler #3

Start Date: 2004.05.27 @ 06:45:52

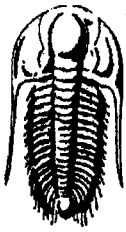
End Date: 2004.05.27 @ 13:27:52

Job Ticket #: 19297 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grady Bolding Corp

Box 486
Ellinwood KS 67526

ATTN: Grady Bolding

Harold Schmeidler #3

33 12s 1'7w Ellis KS

Job Ticket: 19297

DST#: 4

Test Start: 2004.05.27 @ 06:45:52

GENERAL INFORMATION:

Formation: **Arkukle**

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

Time Tool Opened: 08:19:52

Time Test Ended: 13:27:52

Test Type: **Conventional Bottom Hole**

Tester: **Paul Simpson**

Unit No: **20**

Interval: **3587.00 ft (KB) To 3632.00 ft (KB) (TVD)**

Total Depth: **3460.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2096.00 ft (KB)**

2091.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6769 **Inside**

Press@RunDepth: **479.34 psig @ 3596.00 ft (KB)**

Start Date: **2004.05.27**

End Date:

2004.05.27

Start Time: **06:45:55**

End Time:

13:27:52

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.05.27 @ 08:17:52**

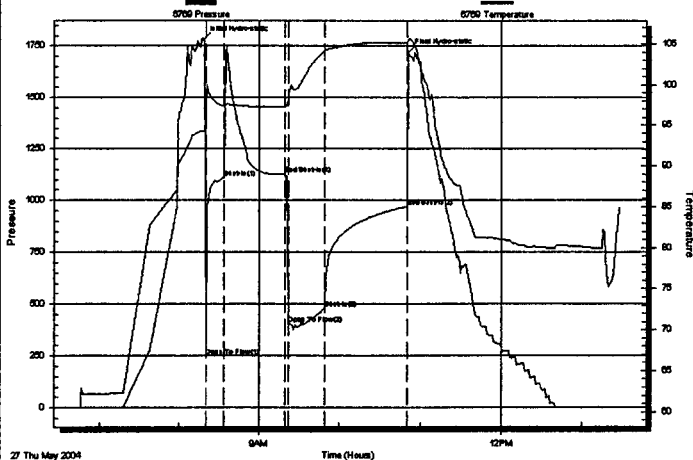
Time Off Btm: **2004.05.27 @ 10:50:52**

TEST COMMENT: IF- strong blow , bottom of bucket in 1 minute. then decreasing. Flushed tool twice, no help.

FF- surface blow - flushed tool- strong blow , bottom of bucket in 30 seconds throughout opening

FS- surf

Pressure vs. Time



27 Thu May 2004

Time (Hours)

PRESSURE SUMMARY

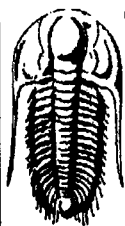
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.20	94.21	Initial Hydro-static
2	244.90	97.24	Open To Flow (1)
16	1108.49	97.34	Shut-In(1)
61	1127.36	97.30	End Shut-In(1)
65	402.65	98.81	Open To Flow (2)
92	479.34	104.19	Shut-In(2)
152	970.52	105.09	End Shut-In(2)
153	1720.22	105.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
770.00	clean oil	10.80
300.00	mud cut oil 75% O 25%M	4.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 17w Ellis KS

Job Ticket: 19297

DST#: 4

ATTN: Grady Bolding

Test Start: 2004.05.27 @ 06:45:52

Tool Information

Drill Pipe:	Length:	3597.00 ft	Diameter:	3.80 inches	Volume:	50.46 bbl	Tool Weight:	3000.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb		
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	50000.00 lb		
						Total Volume:	50.46 bbl	Tool Chased	ft	
Drill Pipe Above KB:	31.00 ft								String Weight: Initial	35000.00 lb
Depth to Top Packer:	3587.00 ft								Final	43000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	45.00 ft									
Tool Length:	66.00 ft									
Number of Packers:	2			Diameter:	6.75 inches					

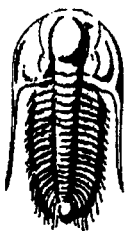
Tool Comments:

tool plugged during initial flow
trapped hydrostatic during initial shutin

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	21.00 Bottom Of Top Packer
Packer	5.00			3587.00	
Stubb	1.00			3588.00	
Perforations	7.00			3595.00	
Change Over Sub	1.00			3596.00	
Recorder	0.00	6769	Inside	3596.00	
Drill Pipe	32.00			3628.00	
Change Over Sub	1.00			3629.00	
Recorder	0.00	13254	Outside	3629.00	
Bullnose	3.00			3632.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Harold Schmeidler #3

Box 486
Ellinwood KS 67526

33 12s 1'7w Ellis KS

Job Ticket: 19297

DST#: 4

ATTN: Grady Bolding

Test Start: 2004.05.27 @ 06:45:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.16 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
770.00	clean oil	10.801
300.00	mud cut oil 75% O 25%M	4.208

Total Length: 1070.00 ft

Total Volume: 15.009 bbl

Num Fluid Samples: 0

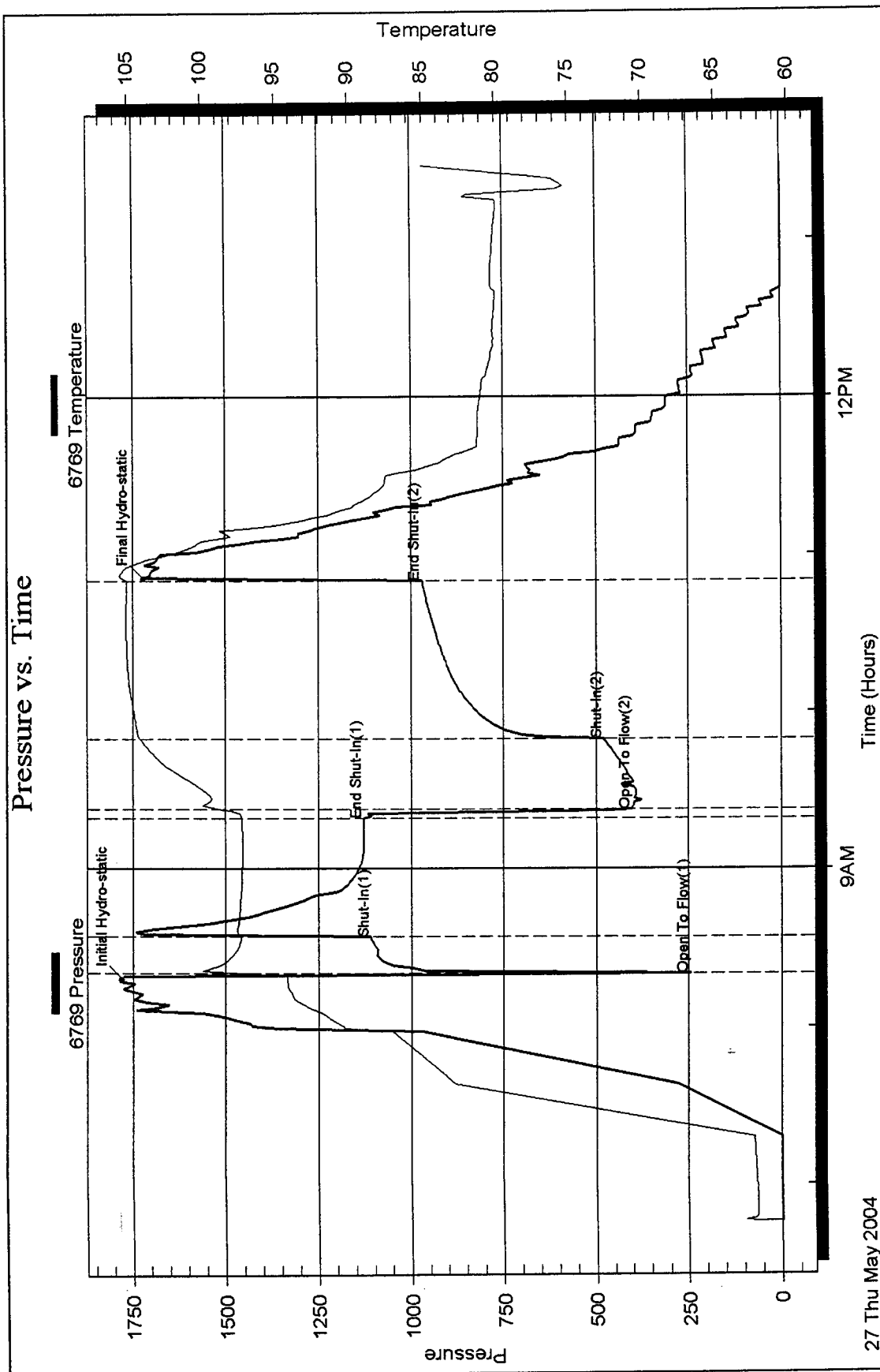
Num Gas Bombs: 0

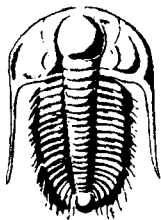
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19294

05/03

Test Ticket

Well Name & No. Harold Schneidb #3 Test No. 1 Date 5/25/04
Company Grady Bolding Corp Zone Tested LKC A-6 "
Address Box 486 Ellinwood Ks 67526 Elevation 2096 KB 2091 GL
Co. Rep / Geo. Jim Mesgrae Cont. Unfeldt Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 33 Twp. 12s Rge. 12w Co. Ellis State Ks
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3385-3460 Initial Str Wt./Lbs. 35,000 Unseated Str Wt./Lbs. _____
Anchor Length 95 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. _____
Top Packer Depth 3380 Tool Weight 3000 _____
Bottom Packer Depth 3385 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 3460 Wt. Pipe Run _____ Drill Collar Run _____
Mud Wt. 9.13 LCM _____ Vis. 49 WL 11.2 Drill Pipe Size 4 1/2 x 8 Ft. Run 3382
Blow Description 1/2" blow building to bottom of bucket in 28 mins
DSE - surface blow back
88- 1" blow building to bottom of bucket in 11 mins

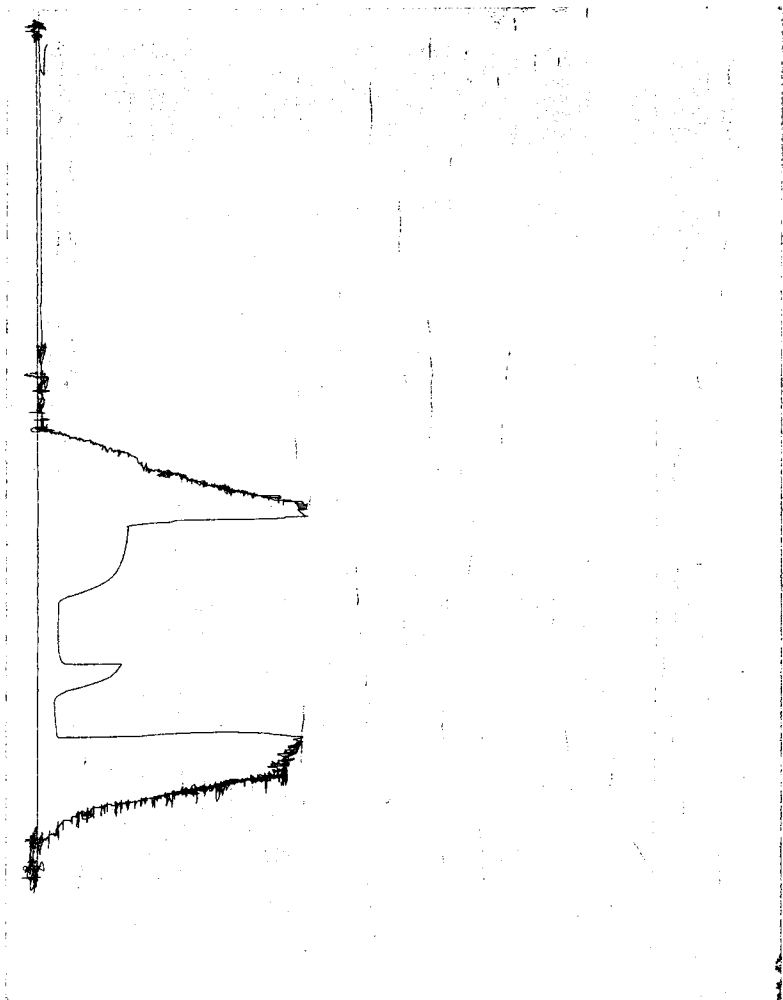
Recovery - Total Feet 150 GIP 240 Ft. in DC _____ Ft. in DP _____
Rec. 60 Feet of WACO 35 %gas 50 %oil 10 %water 5 %mud
Rec. 80 Feet of gay MCO 5 %gas 60 %oil 5 %water 30 %mud
Rec. 20 Feet of gay oil 10 %gas 90 %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
BHT 100 °F Gravity 32 °API D @ 80 °F Corrected Gravity 30 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

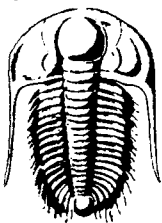
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1683</u>	<u>1683</u>	PSI	<u>6769</u>	<u>700</u>
(B) First Initial Flow Pressure	<u>18</u>	<u>18</u>	PSI	(depth)	<u>150</u>
(C) First Final Flow Pressure	<u>49</u>	<u>49</u>	PSI	Recorder No. <u>13254</u>	Jars _____
(D) Initial Shut-In Pressure	<u>519</u>	<u>519</u>	PSI	(depth) <u>3455</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>49</u>	<u>49</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>74</u>	<u>74</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>547</u>	<u>547</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1637</u>	<u>1637</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
				Final Flow <u>45</u>	Shale Packer _____
				Final Shut-In <u>60</u>	Mileage <u>20.40</u>
				T-On Location <u>0935</u>	Sub Total: <u>870.90</u>
				T-Started <u>1005</u>	Std. By _____
				T-Open <u>1128</u>	Other _____
				T-Pulled <u>1413</u>	Total: _____
				T-Out <u>1538</u>	

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Approved By Jim Mesgrae
Representative Paul Simpson

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19295

05/03

Test Ticket

Well Name & No. <u>Harold Schmeidler #3</u>	Test No. <u>2</u>	Date <u>5/26/04</u>
Company <u>Grady Bolding Corp</u>	Zone Tested <u>LKC H-1C</u>	
Address _____	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Jim Misgrae</u>	Cont. <u>Vonfeldt</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>33</u>	Twp. <u>12s</u>	Rge. <u>17w</u> Co. <u>Ellis</u> State <u>Ks</u>
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3502-3575</u>	Initial Str Wt./Lbs. <u>35,000</u>	Unseated Str Wt./Lbs. <u>3600</u>
Anchor Length <u>73</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3495</u>	Tool Weight _____	
Bottom Packer Depth <u>3502</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3572</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.2</u> LCM _____ Vis. <u>52</u> WL _____	Drill Pipe Size <u>4 1/2"</u>	Ft. Run <u>3504</u>
Blow Description <u>FF - weak 1/2" blow building to 3 1/4"</u>		

FF - 1/2" blow building to 7"
FSI - surface blow

Recovery - Total Feet <u>25</u>	GIP <u>90</u>	Ft. in DC _____	Ft. in DP <u>30</u>
Rec. <u>25</u>	Feet of <u>OCM</u>	%gas <u>20</u>	%oil _____ %water <u>80</u> %mud _____
Rec. <u>5</u>	Feet of <u>clean oil</u>	%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 _____ °F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides _____ ppm System _____	

(A) Initial Hydrostatic Mud _____	AK-1 <u>1767</u> PSI	Alpine _____	Recorder No. <u>6789</u>	Test <u>700</u>
(B) First Initial Flow Pressure _____	<u>15</u> PSI		(depth) <u>3508</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure _____	<u>14</u> PSI		Recorder No. <u>13254</u>	Jars _____
(D) Initial Shut-In Pressure _____	<u>289</u> PSI		(depth) <u>3572</u>	Safety Jt. _____
(E) Second Initial Flow Pressure _____	<u>17</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure _____	<u>23</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure _____	<u>856</u> PSI	Initial Opening <u>30</u>		Straddle _____
(Q) Final Hydrostatic Mud _____	<u>1622</u> PSI	Initial Shut-In <u>30</u>		Ext. Packer _____
		Final Flow <u>45</u>		Shale Packer _____
		Final Shut-In <u>60</u>		Mileage <u>12</u> <u>20.40</u>
		T-On Location <u>6145</u>		Sub Total: _____
		T-Started <u>0244</u>		Std. By _____
		T-Open <u>0406</u>		Other _____
		T-Pulled <u>0551</u>		Total: _____
		T-Out _____		

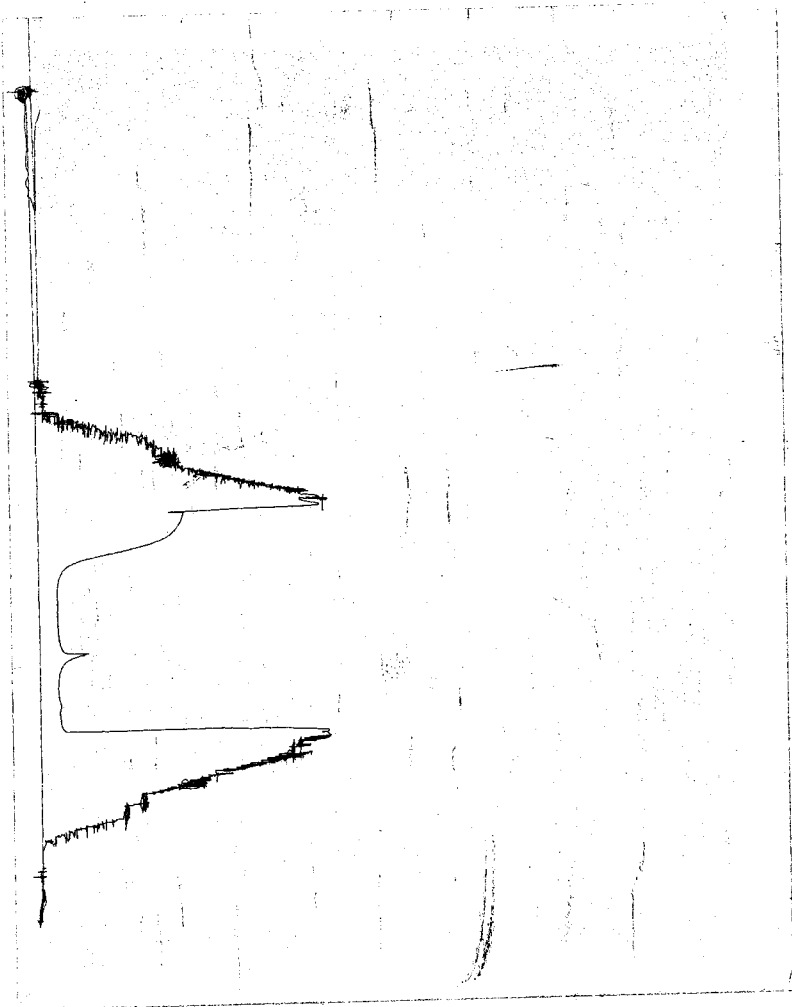
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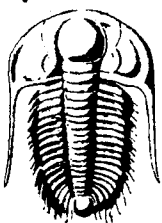
Approved By _____

Our Representative R. Simpson

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19296

05/03

Test Ticket

Well Name & No.	Harold Schmidt #3	Test No.	3	Date	5/26/04
Company	Grady Bolding Corp	Zone Tested	Arb		
Address		Elevation		KB	GL
Co. Rep / Geo.	Jim Musgrove	Cont.	Vandelt	Est. Ft. of Pay	Por. %
Location: Sec.	33	Twp.	12s	Rge.	Dw Co. Ells State Ks
No. of Copies		Disbtribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	3582 - 3626	Initial Str Wt./Lbs.	35,000	Unseated Str Wt./Lbs.	35,000
Anchor Length	39	Wt. Set Lbs.	29000	Wt. Pulled Loose/Lbs.	
Top Packer Depth	3572	Tool Weight	2500		
Bottom Packer Depth	3582	Hole Size	7 7/8"	Rubber Size	6 3/4"
Total Depth	3626	Wt. Pipe Run		Drill Collar Run	
Mud Wt.	9.2	LCM		Vis.	52
		WL	10.0	Drill Pipe Size	4 1/2 x 4
Blow Description	1/2" blow built to 1" then decreased to surface blow at end of IF				

MB run plugged tool

Recovery - Total Feet	55	GIP		Ft. in DC		Ft. in DP	55
Rec.	30	Feet of	Mud	%gas	%oil	%water	%mud
Rec.	25	Feet of	Socm	%gas	15	%oil	85
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT		°F Gravity		°API D @		°F Corrected Gravity	
RW		@	°F	Chlorides	ppm Recovery	Chlorides	ppm System

AK-1

(A) Initial Hydrostatic Mud	1285	PSI	Recorder No.	6269	Test	700
(B) First Initial Flow Pressure	990	PSI	(depth)	3590	Elec. Rec.	150
(C) First Final Flow Pressure	-	PSI	Recorder No.	13254	Jars	
(D) Initial Shut-In Pressure	1133	PSI	(depth)	3623	Safety Jt.	
(E) Second Initial Flow Pressure	115	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	86	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	1102	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud	1753	PSI	Initial Shut-In	30	Ext. Packer	

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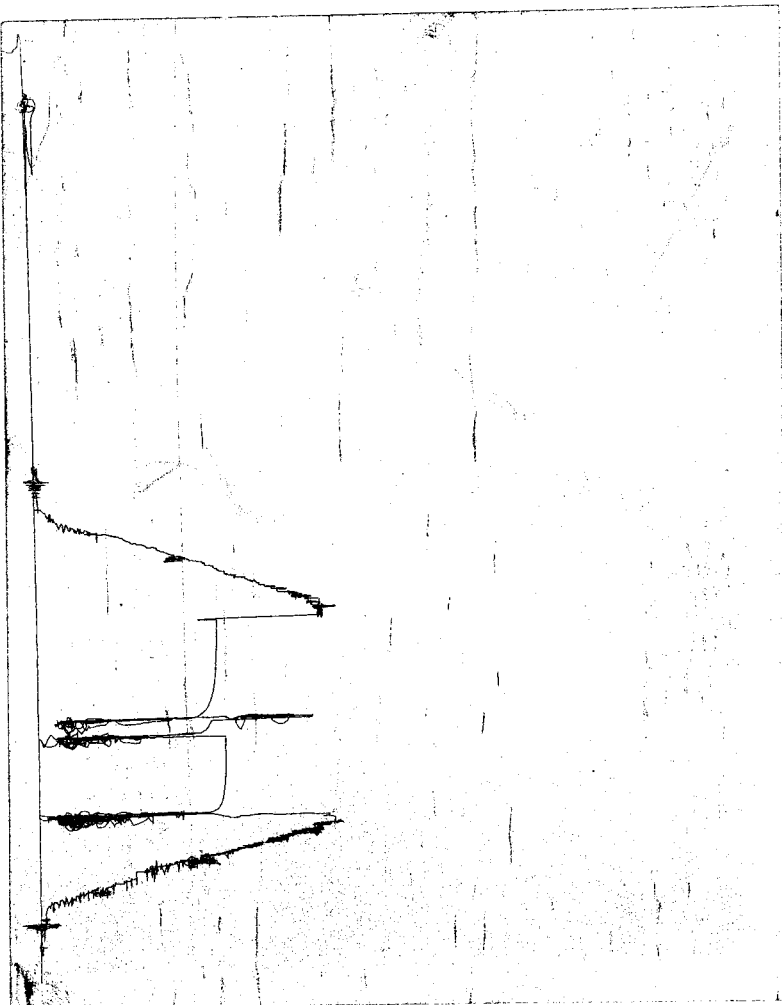
Approved By

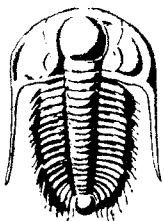
Our Representative

Final Flow	45	Shale Packer	
Final Shut-In	45	Mileage	12 20.40
T-On Location	1715	Sub Total:	
T-Started	1741	Std. By	
T-Open	1909	Other	
T-Pulled	2137	Total:	
T-Out			

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19297

05/03

Test Ticket

Well Name & No.	<u>Harold Schneider</u>	Test No.	<u>4</u>	Date	<u>5/21/09</u>
Company	<u>Grady Bolding Corp</u>	Zone Tested	<u>Arb</u>		
Address		Elevation		KB	GL
Co. Rep / Geo.	<u>Jim Musgrave</u>	Cont.	<u>Unfekt</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>33</u>	Twp.	<u>12s</u>	Rge.	<u>15w</u>
				Co.	<u>Ellis</u>
				State	<u>Ks</u>
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	<u>3587-3632</u>	Initial Str Wt./Lbs.	<u>35,000</u>	Unseated Str Wt./Lbs.	<u>43,000</u>
Anchor Length	<u>45</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>46,000</u>
Top Packer Depth	<u>3582</u>	Tool Weight			
Bottom Packer Depth	<u>3587</u>	Hole Size	<u>7 7/8"</u>	Rubber Size	<u>6 3/4"</u>
Total Depth	<u>3632</u>	Wt. Pipe Run		Drill Collar Run	
Mud Wt.	LCM	Vis.		Drill Pipe Size	<u>4 1/2"</u>
		WL		Ft. Run	<u>3597</u>
Blow Description	<u>strong blow - bottom of bucket then decreased flight tool tw</u>				
	<u>- no help</u>				
	<u>fl - no blow - flight tool - strong blow - bottom of bucket in 1 make</u>				
	<u>FST - surface blow</u>				

Recovery - Total Feet	<u>1070</u>	GIP		Ft. in DC		Ft. in DP	<u>1070</u>
Rec.	<u>300</u>	Feet of	<u>MC</u>	%gas	<u>75</u>	%oil	
Rec.	<u>770</u>	Feet of	<u>cl oil</u>	%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of	<u>tool plugged in 1F</u>	%gas		%oil	
Rec.		Feet of	<u>trapped hydrocarbon 1F</u>	%gas		%oil	
BHT	<u>105</u>	°F Gravity	<u>30</u>	°API D @	<u>90</u>	°F Corrected Gravity	<u>26</u>
RW		@		°F		Chlorides	
						ppm Recovery	
						Chlorides	
						ppm System	

AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>1779</u>	PSI	Recorder No.	<u>6769</u>	Test	<u>100</u>
(B) First Initial Flow Pressure	<u>245</u>	PSI	(depth)	<u>3590</u>	Elec. Rec.	<u>150</u>
(C) First Final Flow Pressure	<u>1108</u>	PSI	Recorder No.	<u>13259</u>	Jars	
(D) Initial Shut-In Pressure	<u>1127</u>	PSI	(depth)	<u>3629</u>	Safety Jt.	
(E) Second Initial Flow Pressure	<u>402</u>	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	<u>479</u>	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	<u>970</u>	PSI	Initial Opening	<u>30</u>	Straddle	
(Q) Final Hydrostatic Mud	<u>1720</u>	PSI	Initial Shut-In	<u>30</u>	Ext. Packer	
			Final Flow	<u>36</u>	Shale Packer	
			Final Shut-In	<u>60</u>	Mileage	<u>12 2040</u>
			T-On Location	<u>0615</u>	Sub Total:	
			T-Started	<u>0645</u>	Std. By	
			T-Open	<u>0518</u>	Other	
			T-Pulled	<u>1048</u>	Total:	
			T-Out			

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Approved By [Signature]

Our Representative [Signature]

CHART PAGE

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