

DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

P O Box 486
Ellinwood Ks 67526

ATTN: Grady Bolding

4-13-17-Ellis-Ks

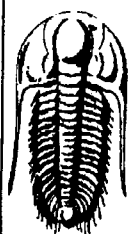
Madden #4

Start Date: 2004.12.16 @ 00:45:24

End Date: 2004.12.16 @ 07:44:54

Job Ticket #: 21157 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

P O Box 486
Elinwood Ks 67526

ATTN: Grady Bolding

Madden #4

4-13-17-Ellis-Ks

Job Ticket: 21157

DST#: 1

Test Start: 2004.12.16 @ 00:45:24

GENERAL INFORMATION:

Formation: **Tor/ A-C LKC**

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

Time Tool Opened: 03:00:54

Time Test Ended: 07:44:54

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3268.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Total Depth: **3350.00 ft (KB) (TVD)**

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

Reference Elevations: **2060.00 ft (KB)**

2055.00 ft (CF)

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

Serial #: 6799

Inside

Press@RunDepth: **85.53 psig @ 3274.00 ft (KB)**

Start Date: **2004.12.16**

End Date:

2004.12.16

Start Time: **00:45:25**

End Time:

07:44:54

Capacity: **7000.00 psig**

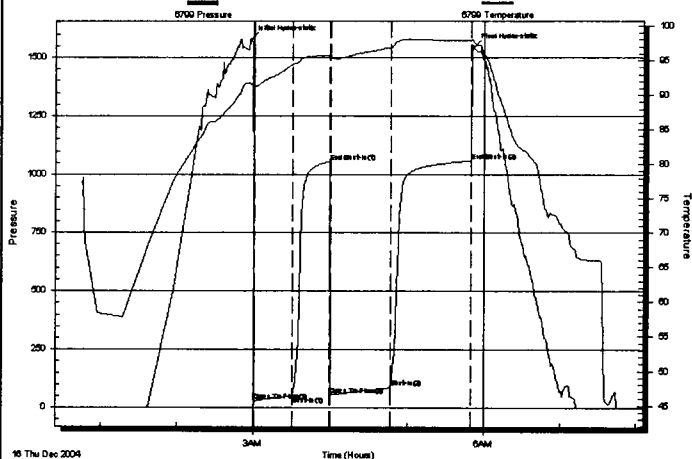
Last Calib.: **2004.12.16**

Time On Btm: **2004.12.16 @ 02:57:54**

Time Off Btm: **2004.12.16 @ 05:51:24**

TEST COMMENT: IF-Strong B-B in 20 min
FF-Strong B-B in 20 min
Times-30-30-45-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.40	91.57	Initial Hydro-static
3	28.11	91.27	Open To Flow (1)
33	50.96	94.41	Shut-In(1)
61	1055.57	95.71	End Shut-In(1)
62	55.84	95.43	Open To Flow (2)
109	85.53	96.89	Shut-In(2)
172	1058.01	97.91	End Shut-In(2)
174	1545.61	97.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCWtr w/scum of oil 60%w 40%m	0.84
125.00	MCO 50%o 50%m	1.75
0.00	415 GIP	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

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21157

DST#: 1

ATTN: Grady Bolding

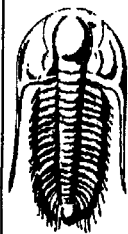
Test Start: 2004.12.16 @ 00:45:24

Tool Information

Drill Pipe:	Length:	3280.00 ft	Diameter:	3.80 inches	Volume:	46.01 bbl	Tool Weight:	2200.00 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:	46.01 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	33.00 ft								String Weight: Initial	30000.00 lb
Depth to Top Packer:	3268.00 ft								Final	31000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	82.00 ft									
Tool Length:	103.00 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			3248.00	
Shut In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Packer	5.00			3263.00	21.00 Bottom Of Top Packer
Packer	5.00			3268.00	
Stubb	1.00			3269.00	
Perforations	4.00			3273.00	
Change Over Sub	1.00			3274.00	
Recorder	0.00	6799	Inside	3274.00	
Drill Pipe	62.00			3336.00	
Change Over Sub	1.00			3337.00	
Recorder	0.00	13254	Outside	3337.00	
Perforations	10.00			3347.00	
Bullnose	3.00			3350.00	82.00 Bottom Packers & Anchor

Total Tool Length: 103.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21157

DST#: 1

ATTN: Grady Bolding

Test Start: 2004.12.16 @ 00:45:24

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCVtr w/scum of oil 60%w 40%m	0.842
125.00	MCO 50%o 50%m	1.753
0.00	415 GIP	0.000

Total Length: 185.00 ft

Total Volume: 2.595 bbl

Num Fluid Samples: 0

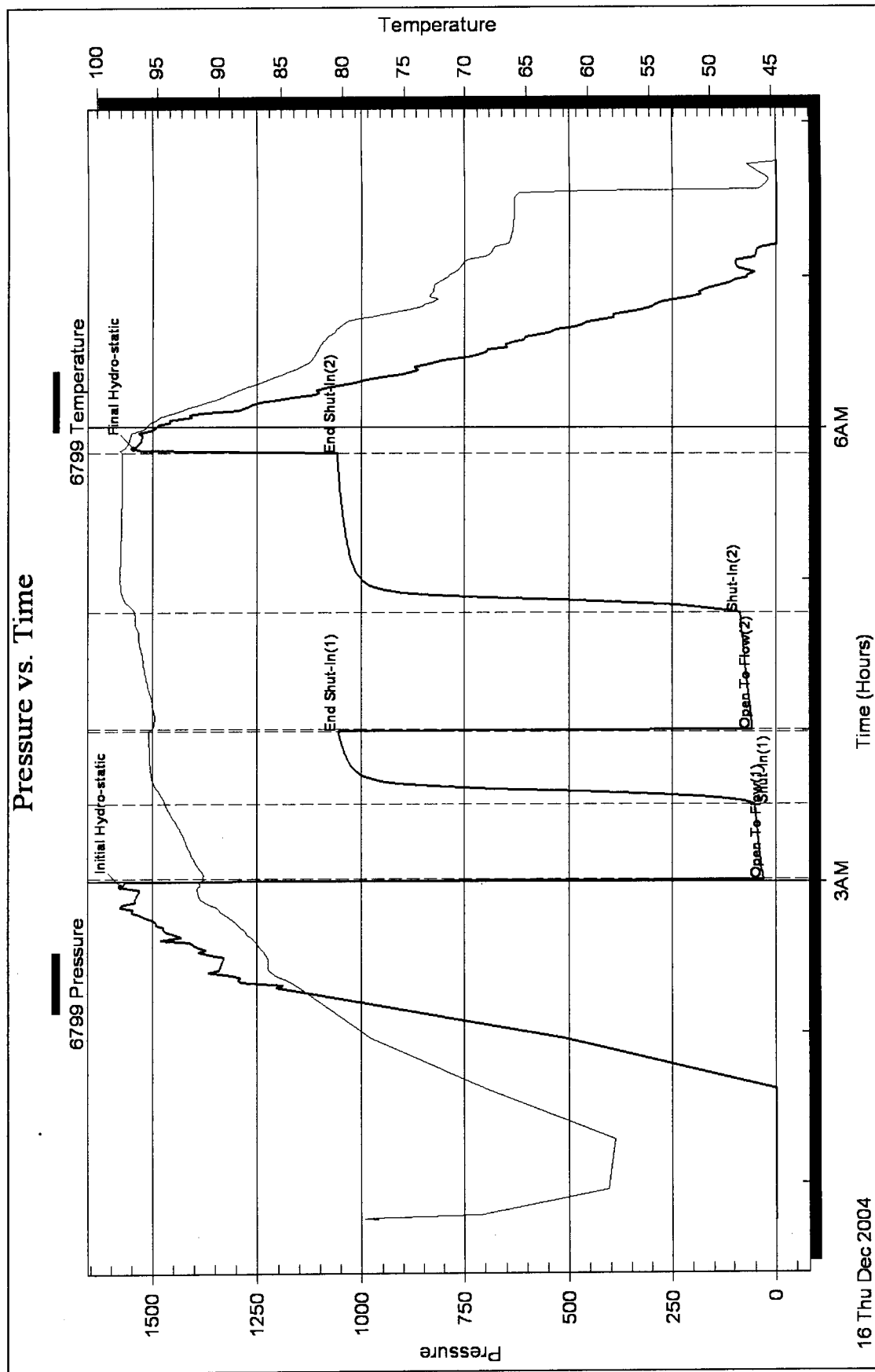
Num Gas Bombs: 0

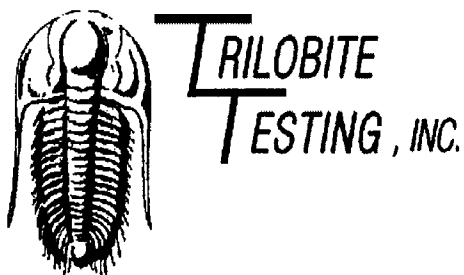
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

P O Box 486
Ellinwood Ks 67526

ATTN: Grady Bolding

4-13-17-Ellis-Ks

Madden #4

Start Date: 2004.12.16 @ 15:35:20

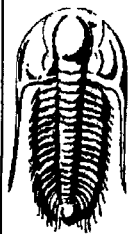
End Date: 2004.12.16 @ 22:00:50

Job Ticket #: 21158 DST #: 2

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

P O Box 486
Ellinwood Ks 67526

ATTN: Grady Bolding

Madden #4

4-13-17-Ellis-Ks

Job Ticket: 21158

DST#: 2

Test Start: 2004.12.16 @ 15:35:20

GENERAL INFORMATION:

Formation: **D-E-F-G LKC**

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

Time Tool Opened: 17:25:50

Time Test Ended: 22:00:50

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3350.00 ft (KB) To 3416.00 ft (KB) (TVD)**

Total Depth: **3416.00 ft (KB) (TVD)**

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

Reference Elevations: **2060.00 ft (KB)**

2055.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: **27.92 psig @ 3356.00 ft (KB)**

Start Date: **2004.12.16**

End Date:

2004.12.16

Start Time: **15:35:21**

End Time:

23:34:50

Capacity: **7000.00 psig**

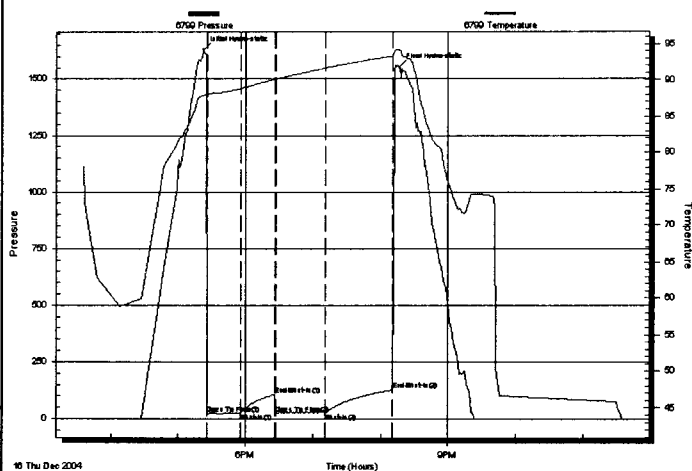
Last Calib.: **2004.12.16**

Time On Btm: **2004.12.16 @ 17:22:50**

Time Off Btm: **2004.12.16 @ 20:16:20**

TEST COMMENT: Slid tool 10' to bottom
IF-Weak building to 3"
FF-Weak building to 1"
Times-30-30-45-60

Pressure vs. Time



PRESSURE SUMMARY

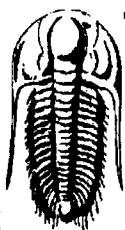
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.37	87.84	Initial Hydro-static
3	22.95	87.74	Open To Flow (1)
34	27.82	88.85	Shut-In(1)
64	107.90	90.13	End Shut-In(1)
64	22.72	90.14	Open To Flow (2)
108	27.92	91.64	Shut-In(2)
168	126.22	93.27	End Shut-In(2)
174	1551.97	94.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Gey Mud 10%g 90%rm	0.56
0.00	120 GIP	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

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21158

DST#: 2

ATTN: Grady Bolding

Test Start: 2004.12.16 @ 15:35:20

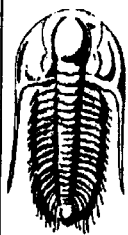
Tool Information

Drill Pipe:	Length: 3342.00 ft	Diameter: 3.80 inches	Volume: 46.88 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
			<u>Total Volume: 46.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3350.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	87.00 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			3330.00	
Shut In Tool	5.00			3335.00	
Hydraulic tool	5.00			3340.00	
Packer	5.00			3345.00	21.00 Bottom Of Top Packer
Packer	5.00			3350.00	
Stubb	1.00			3351.00	
Perforations	4.00			3355.00	
Change Over Sub	1.00			3356.00	
Recorder	0.00	6799	Inside	3356.00	
Drill Pipe	31.00			3387.00	
Change Over Sub	1.00			3388.00	
Recorder	0.00	13254	Outside	3388.00	
Perforations	25.00			3413.00	
Bullnose	3.00			3416.00	66.00 Bottom Packers & Anchor

Total Tool Length: 87.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21158

DST#: 2

ATTN: Grady Bolding

Test Start: 2004.12.16 @ 15:35:20

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Gsy Mud 10%g 90%m	0.561
0.00	120 GIP	0.000

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

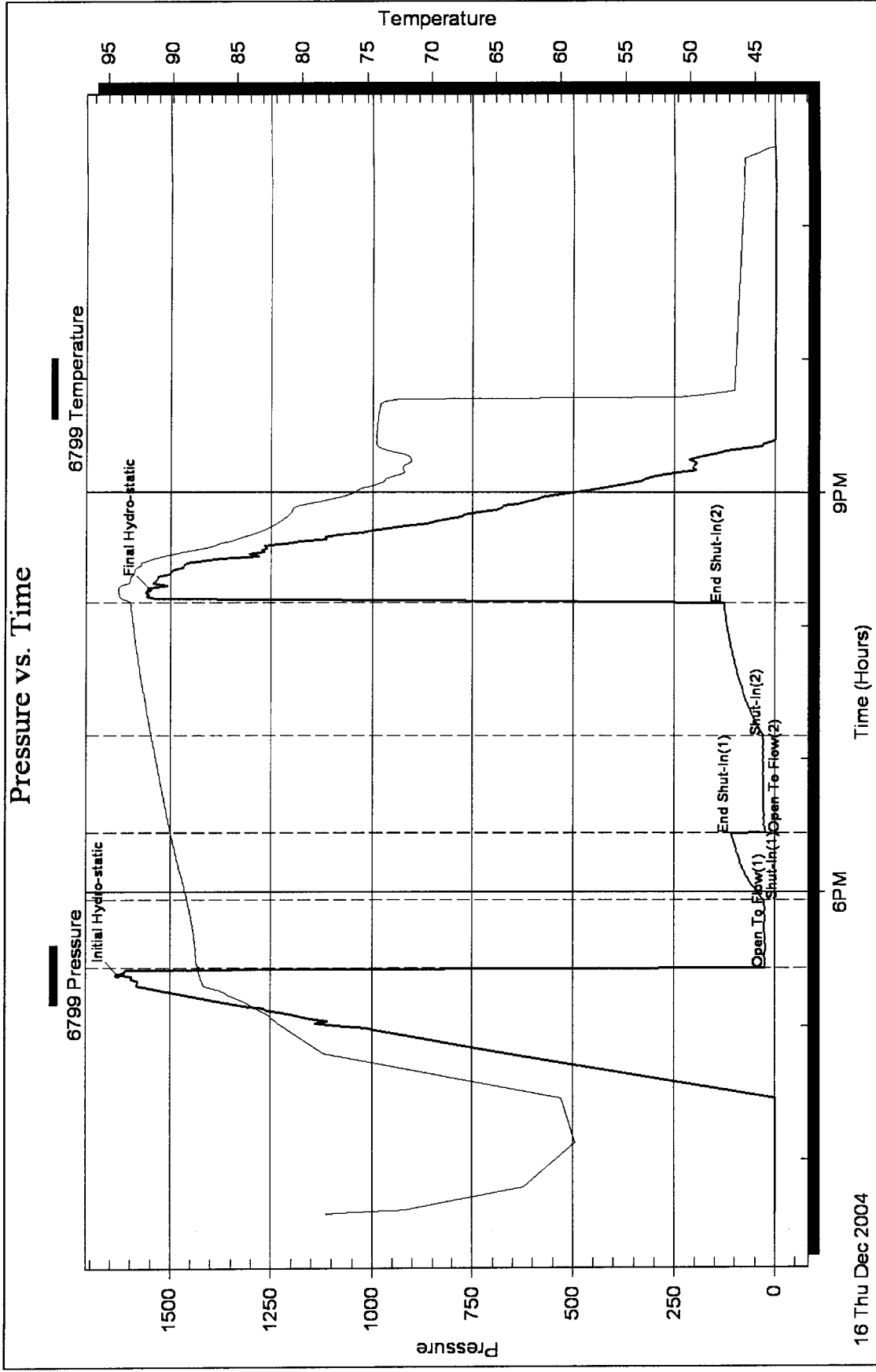
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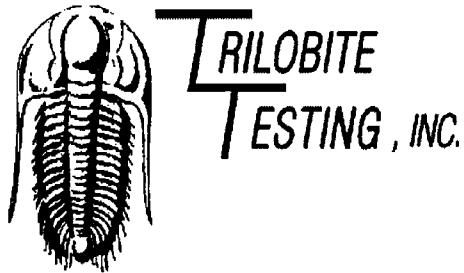
Inside

Grady Bolding Corp

4-13-17-Elis-Ks

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

P O Box 486
Ellinwood Ks 67526

ATTN: Grady Bolding

4-13-17-Ellis-Ks

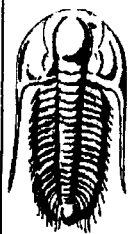
Madden #4

Start Date: 2004.12.17 @ 17:10:50

End Date: 2004.12.17 @ 22:15:20

Job Ticket #: 21159 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

P O Box 486
Ellinwood Ks 67526

ATTN: Grady Bolding

Madden #4

4-13-17-Ellis-Ks

Job Ticket: 21159

DST#: 3

Test Start: 2004.12.17 @ 17:10:50

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 18:52:20

Time Test Ended: 22:15:20

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3573.00 ft (KB) To 3581.00 ft (KB) (TVD)**

Total Depth: **3581.00 ft (KB) (TVD)**

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

Reference Elevations: **2060.00 ft (KB)**

2055.00 ft (CF)

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

Serial #: 6799

Inside

Press@RunDepth: **17.60 psig @ 3574.00 ft (KB)**

Start Date: **2004.12.17**

End Date:

2004.12.17

Capacity: **7000.00 psig**

Last Calib.: **2004.12.17**

Start Time: **17:10:51**

End Time:

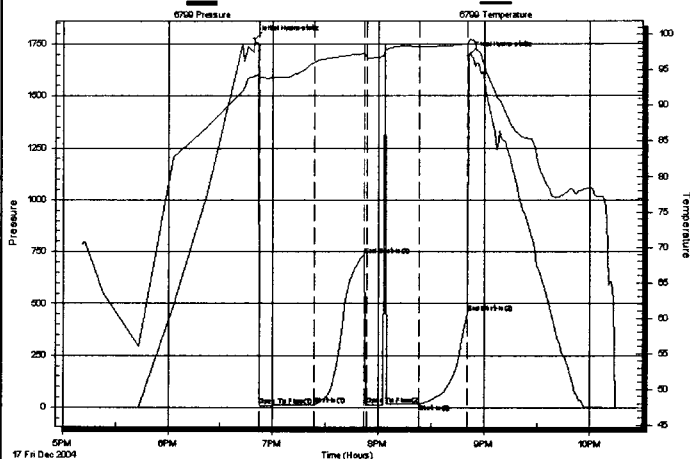
22:15:20

Time On Btm: **2004.12.17 @ 18:49:20**

Time Off Btm: **2004.12.17 @ 20:50:50**

TEST COMMENT: **IF-Weak died in 18 min**
FF-No blow - flushed tool
Times-30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

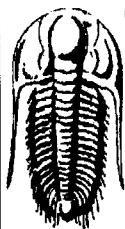
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.53	94.15	Initial Hydro-static
3	11.90	93.95	Open To Flow (1)
34	13.93	96.13	Shut-In(1)
63	734.85	97.31	End Shut-In(1)
64	13.27	96.79	Open To Flow (2)
94	17.60	98.26	Shut-In(2)
121	456.63	98.73	End Shut-In(2)
122	1693.48	99.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	C O	0.01
9.00	OCM 2% 98% m	0.13

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

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21159

DST#: 3

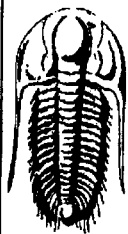
ATTN: Grady Bolding

Test Start: 2004.12.17 @ 17:10:50

Tool Information

Drill Pipe:	Length: 3559.00 ft	Diameter: 3.80 inches	Volume: 49.92 bbl	Tool Weight:	1200.00 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:	40000.00 lb
			<u>Total Volume: 49.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	31000.00 lb
Depth to Top Packer:	3573.00 ft			Final	31000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	29.00 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			3553.00	
Shut In Tool	5.00			3558.00	
Hydraulic tool	5.00			3563.00	
Packer	5.00			3568.00	21.00 Bottom Of Top Packer
Packer	5.00			3573.00	
Stubb	1.00			3574.00	
Recorder	0.00	6799	Inside	3574.00	
Perforations	4.00			3578.00	
Recorder	0.00	13254	Outside	3578.00	
Bullnose	3.00			3581.00	8.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21159

DST#: 3

ATTN: Grady Bolding

Test Start: 2004.12.17 @ 17:10:50

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	C O	0.014
9.00	OCM 2%o 98% m	0.126

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

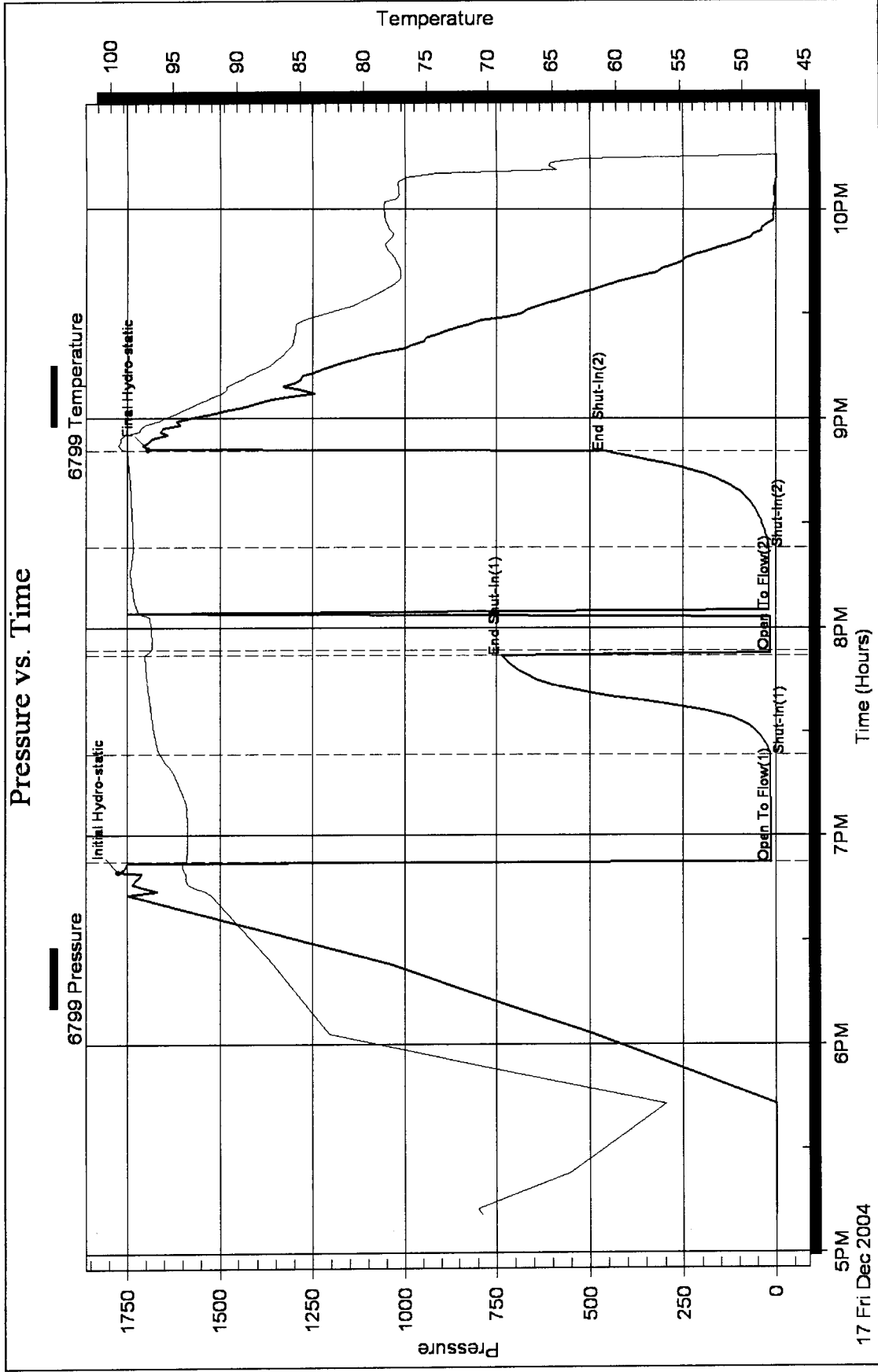
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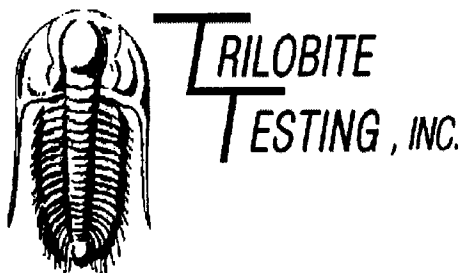
Grady Bolding Corp

4-13-17-Elis-Ks

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp**

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Ellinwood Ks 67526

ATTN: Grady Bolding

4-13-17-Ellis-Ks

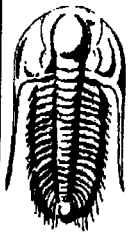
Madden #4

Start Date: 2004.12.18 @ 05:15:23

End Date: 2004.12.18 @ 11:45:23

Job Ticket #: 21160 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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DRILL STEM TEST REPORT

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P O Box 486
Ellinwood Ks 67526

ATTN: Grady Bolding

Madden #4

4-13-17-Ellis-Ks

Job Ticket: 21160

DST#: 4

Test Start: 2004.12.18 @ 05:15:23

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 06:55:23

Time Test Ended: 11:45:23

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3581.00 ft (KB) To 3591.00 ft (KB) (TVD)**

Total Depth: **3591.00 ft (KB) (TVD)**

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

Reference Elevations: **2060.00 ft (KB)**

2055.00 ft (CF)

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

Serial #: 6799 **Inside**

Press@RunDepth: **108.18 psig @ 3582.00 ft (KB)**

Start Date: **2004.12.18**

End Date:

2004.12.18

Start Time: **05:15:24**

End Time:

13:05:23

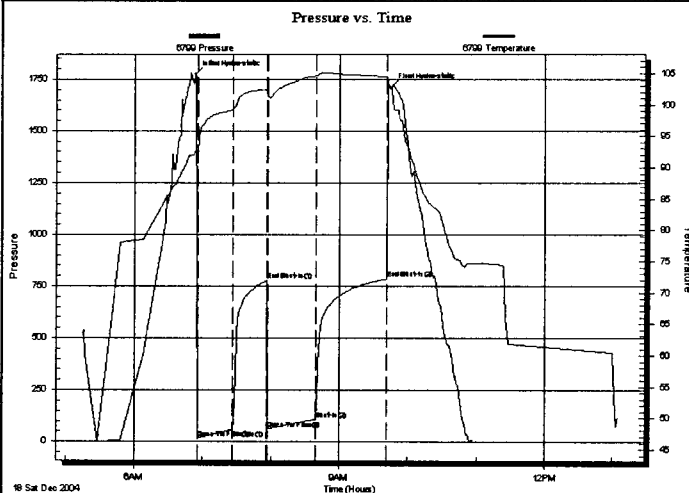
Capacity: **7000.00 psig**

Last Calib.: **2004.12.18**

Time On Btm: **2004.12.18 @ 06:53:23**

Time Off Btm: **2004.12.18 @ 09:44:23**

TEST COMMENT: **F-Strong B-B in 30 min**
FF-Weak building to 6"
Times-30-30-45-60



PRESSURE SUMMARY

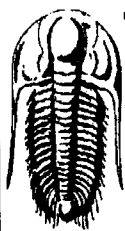
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.03	92.66	Initial Hydro-static
2	16.46	92.24	Open To Flow (1)
33	57.64	99.24	Shut-In(1)
63	776.53	102.42	End Shut-In(1)
64	61.56	101.76	Open To Flow (2)
106	108.18	104.65	Shut-In(2)
168	785.69	104.54	End Shut-In(2)
171	1710.99	102.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCGsyO 10%g 70%o 20%rn	0.84
205.00	CGsyO 15%g 85%o	2.88
0.00	175 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21160

DST#: 4

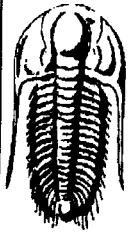
ATTN: Grady Bolding

Test Start: 2004.12.18 @ 05:15:23

Tool Information

Drill Pipe:	Length: 3590.00 ft	Diameter: 3.80 inches	Volume: 50.36 bbl	Tool Weight:	1200.00 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:	45000.00 lb
			<u>Total Volume: 50.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	31000.00 lb
Depth to Top Packer:	3581.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	31.00 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			3561.00	
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Packer	5.00			3576.00	21.00 Bottom Of Top Packer
Packer	5.00			3581.00	
Stubb	1.00			3582.00	
Recorder	0.00	6799	Inside	3582.00	
Perforations	6.00			3588.00	
Recorder	0.00	13254	Outside	3588.00	
Bullnose	3.00			3591.00	10.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp

Madden #4

P O Box 486
Ellinwood Ks 67526

4-13-17-Ellis-Ks

Job Ticket: 21160

DST#: 4

ATTN: Grady Bolding

Test Start: 2004.12.18 @ 05:15:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCGsyO 10%g 70%o 20%m	0.842
205.00	CGsyO 15%g 85%o	2.876
0.00	175 GIP	0.000

Total Length: 265.00 ft Total Volume: 3.718 bbl

Num Fluid Samples: 0

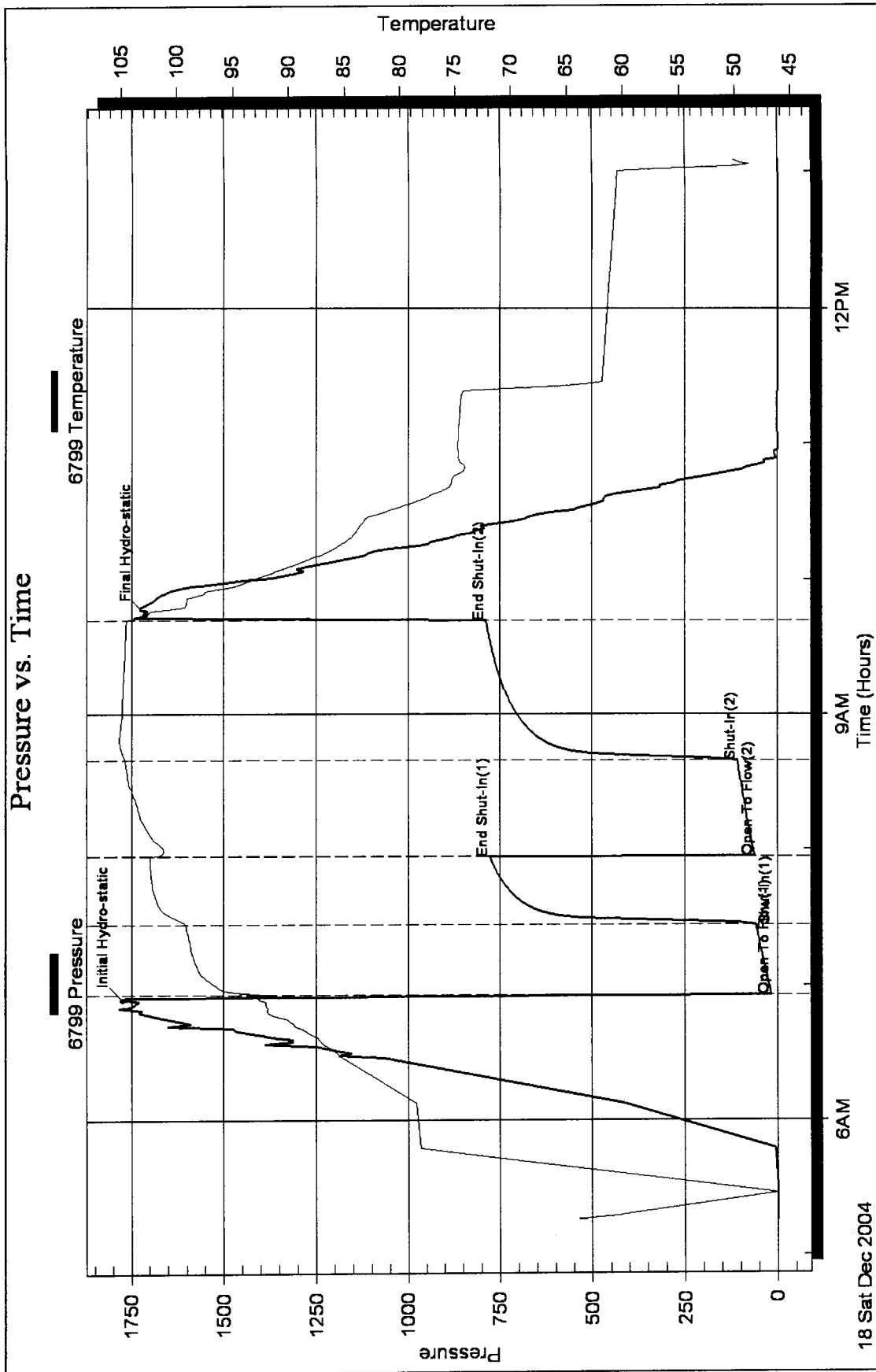
Num Gas Bombs: 0

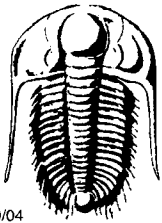
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
7054

No 21157

9/04

Test Ticket

Well Name & No. <u>Madden #4</u>	Test No. <u>1</u>	Date <u>12-15-04</u>
Company <u>Grady Bolding Corp.</u>	Zone Tested <u>Tor/A-C LKC</u>	
Address <u>P.O. Box 484, Ellinwood, KS. 67526</u>	Elevation <u>2060</u>	KB <u>2055</u> GL
Co. Rep / Geo. <u>Jim Musgrove</u>	Cont. <u>Vonfeldt</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>13</u> Rge. <u>17</u> Co. <u>Ellis</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3268 — 3350 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 31,000
 Anchor Length 82 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 59,000
 Top Packer Depth 3263 Tool Weight 2200
 Bottom Packer Depth 3268 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3350 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 8.9 LCM _____ Vis. 44 WL 9.6 Drill Pipe Size 4.5 X 4 Ft. Run 3280
 Blow Description I.F. Strong - B-B in 20 min.

F.F. Strong B-B in 20 min.

Recovery - Total Feet 185 GIP 415 Ft. in DC _____ Ft. in DP 185
 Rec. 125 Feet of MCO %gas 50%oil _____ %water 50%mud
 Rec. 60 Feet of MC WTR w/ scum %gas 50%oil 60 %water 40%mud
 Rec. _____ Feet of of oil %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 .13 @ 75 °F Chlorides 80,000 ppm Recovery _____ Chlorides 5300 ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1576</u> PSI	Recorder No. <u>6799</u>	Test <u>900</u>
(B) First Initial Flow Pressure	<u>28</u> PSI	(depth) <u>3274</u>	Jars _____
(C) First Final Flow Pressure	<u>50</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1055</u> PSI	(depth) <u>3337</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>55</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>85</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1058</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1545</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By _____

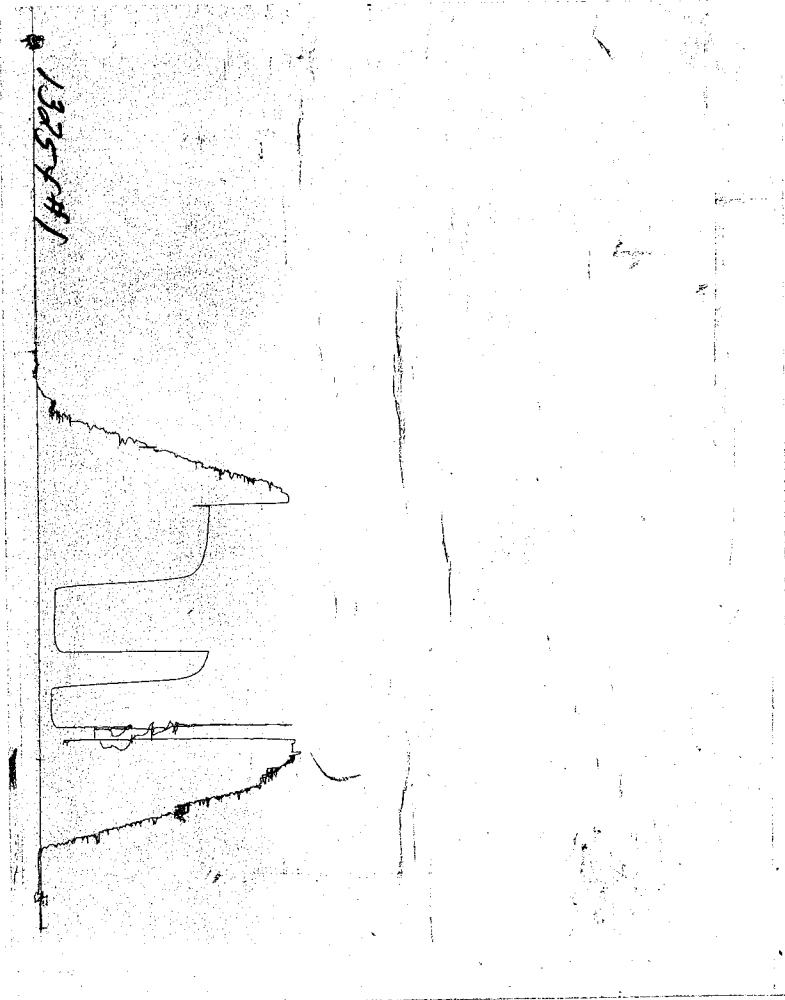
Our Representative Dan Bangle

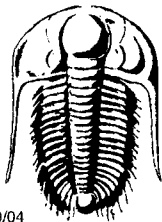
Final Flow 45
 Final Shut-In 60
 T-On Location 23:00
 T-Started 00:45
 T-Open 03:00
 T-Pulled 05:45
 T-Out 07:44

Ruined Packer _____
 Mileage 24
 Sub Total: 924.00
 Std. By 34 22.50
 Other _____
 Total: 946.50

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21158

9/04

Test Ticket

Well Name & No. <u>Madden #4</u>	Test No. <u>2</u>	Date <u>12-16-04</u>
Company <u>Grady Bolding Corp</u>	Zone Tested <u>D-E-F-G LKC</u>	
Address _____	Elevation <u>2060</u>	KB <u>2055</u> GL _____
Co. Rep / Geo. <u>Jim Musgrove</u>	Cont. <u>Vonfeldt</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>13</u> Rge. <u>17</u> Co. <u>Ellis</u>	State <u>Ks</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3350 — 3416 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 30,000
 Anchor Length 66 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3345 Tool Weight 2500
 Bottom Packer Depth 3350 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3416 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 8.8 LCM _____ Vis. 44 WL 9.2 Drill Pipe Size 4.5 XH Ft. Run 3342
 Blow Description Slid tool 10' to bottom
I.F. Weak - building to 3"

F.F. Weak - building to 1"

Recovery - Total Feet 40 GIP 120 Ft. in DC _____ Ft. in DP 40
 Rec. 40 Feet of Gey Mud 10 %gas _____ %oil _____ %water 90 %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 93 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 6500 ppm System _____

AK-1

Alpine

(A) Initial Hydrostatic Mud	<u>1629</u> PSI	Recorder No.	<u>6799</u>	Test	_____
(B) First Initial Flow Pressure	<u>27</u> PSI	(depth)	<u>3356</u>	Jars	_____
(C) First Final Flow Pressure	<u>27</u> PSI	Recorder No.	<u>13254</u>	Safety Jt.	_____
(D) Initial Shut-In Pressure	<u>107</u> PSI	(depth)	<u>3388</u>	Circ Sub	_____
(E) Second Initial Flow Pressure	<u>27</u> PSI	Recorder No.	_____	Sampler	_____
(F) Second Final Flow Pressure	<u>27</u> PSI	(depth)	_____	Straddle	_____
(G) Final Shut-In Pressure	<u>126</u> PSI	Initial Opening	<u>30</u>	Ext. Packer	_____
(Q) Final Hydrostatic Mud	<u>1551</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer	_____
		Final Flow	<u>45</u>	Ruined Packer	_____
		Final Shut-In	<u>60</u>	Mileage <u>24</u>	
		T-On Location	<u>15:15</u>	Sub Total:	<u>924</u>
		T-Started	<u>15:35</u>	Std. By	_____
		T-Open	<u>17:25</u>	Other	_____
		T-Pulled	<u>20:10</u>	Total:	_____
		T-Out	<u>22:00</u>		

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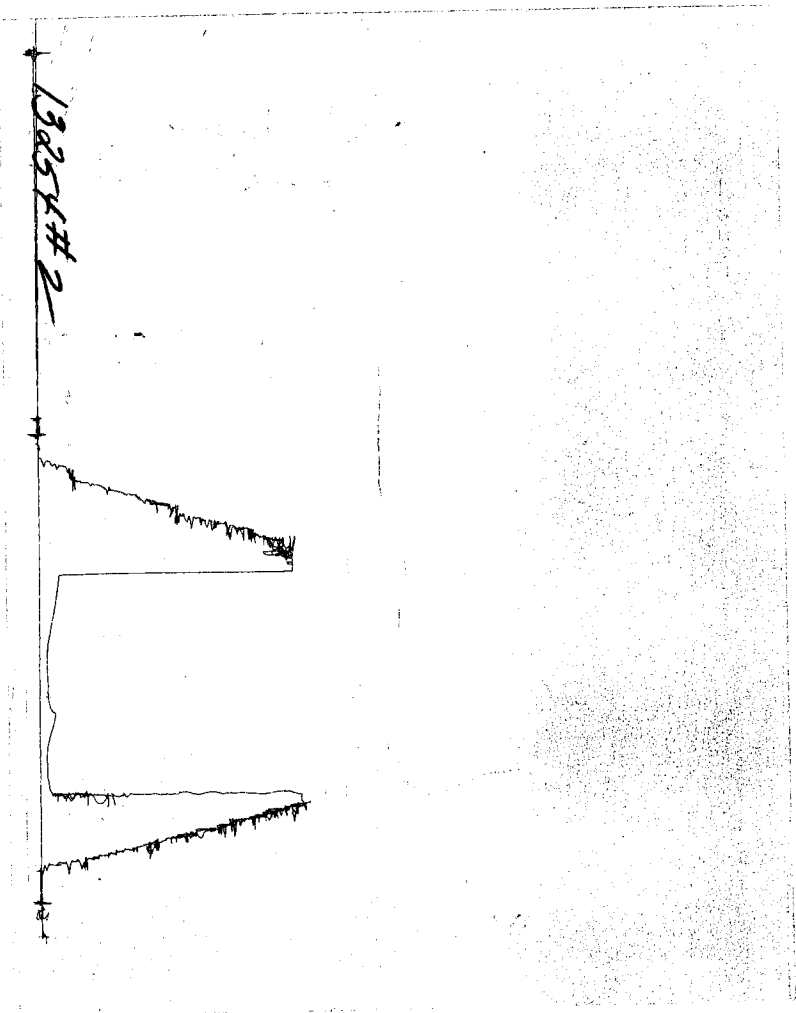
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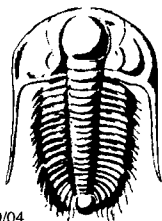
Our Representative

Dan Bangle

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21159

9/04

Test Ticket

Well Name & No. <u>Madden #4</u>	Test No. <u>3</u>	Date <u>12-17-04</u>
Company <u>Grady Bolding Corp</u>	Zone Tested <u>Arbockle</u>	
Address _____	Elevation <u>2060</u> KB <u>2055</u> GL	
Co. Rep / Geo. <u>Jim Musgrave</u>	Cont. <u>Vonfeldt</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>13</u> Rge. <u>17</u> Co. <u>Ellis</u> State <u>Ks</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3573 — 3581 Initial Str Wt./Lbs. 31,000 Unseated Str Wt./Lbs. 31,000
 Anchor Length 8 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 29,000
 Top Packer Depth 3568 Tool Weight 1200
 Bottom Packer Depth 3573 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3581 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM _____ Vis. 44 WL 9.6 Drill Pipe Size 4.5 X 14 Ft. Run 3559
 Blow Description I.F. Weak - Dried in 18 min.

F.F. No blow - Flushed Tool

Recovery - Total Feet <u>10</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>10</u>
Rec. <u>9</u> Feet of <u>5 1/4 OCM</u>	%gas <u>2</u> %oil _____	%water <u>98</u> %mud _____	
Rec. <u>1</u> Feet of <u>CO</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 <u>98</u> °F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>8500</u> ppm System	

(A) Initial Hydrostatic Mud <u>1773</u> PSI	Recorder No. <u>6799</u>	Test _____
(B) First Initial Flow Pressure <u>11</u> PSI	(depth) <u>3574</u>	Jars _____
(C) First Final Flow Pressure <u>13</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure <u>734</u> PSI	(depth) <u>3578</u>	Circ Sub _____
(E) Second Initial Flow Pressure <u>13</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>17</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>456</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>1693</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
	Final Flow <u>30</u>	Ruined Packer _____
	Final Shut-In <u>30</u>	Mileage <u>24</u>
	T-On Location <u>17:00</u>	Sub Total: <u>924</u>
	T-Started <u>17:10</u>	Std. By _____
	T-Open <u>18:53</u>	Other _____
	T-Pulled <u>20:53</u>	Total: _____
	T-Out <u>22:15</u>	

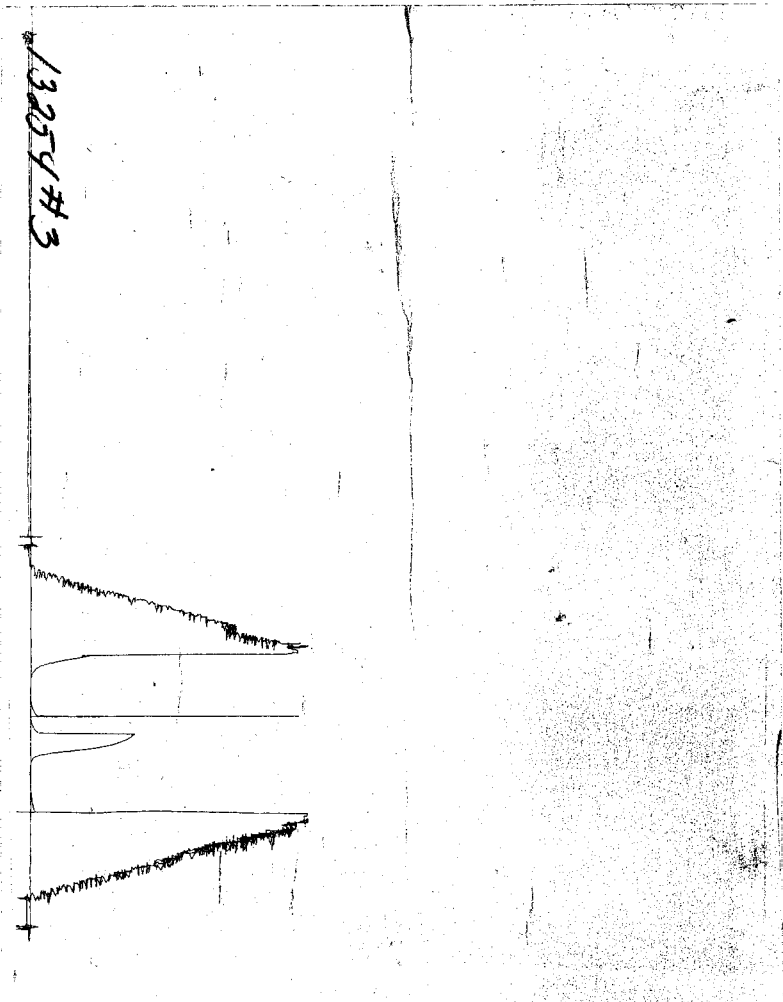
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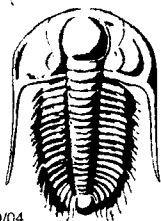
Approved By _____

Our Representative Dan Rangle

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21160

9/04

Test Ticket

Well Name & No. <u>Madden #4</u>	Test No. <u>41</u>	Date <u>12-18-04</u>
Company <u>Grady Bolding Corp</u>	Zone Tested <u>Arbuckle</u>	
Address _____	Elevation <u>2060</u> KB <u>2055</u> GL	
Co. Rep / Geo. <u>Jim Musgrove</u>	Cont. <u>Vanfeldt</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>13</u> Rge. <u>17</u> Co. <u>Ellis</u> State <u>Ks</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3581 — 3591 Initial Str Wt./Lbs. 31,000 Unseated Str Wt./Lbs. 33,000
 Anchor Length 10' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 3576 Tool Weight 1200
 Bottom Packer Depth 3581 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3591 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.2 LCM _____ Vis. 44 WL 9.6 Drill Pipe Size 4.5 XH Ft. Run 3590
 Blow Description I.F. Strong B-B in 30 min.

E.F. Weak- building to 6'

Recovery - Total Feet <u>265</u>	GIP <u>175</u>	Ft. in DC _____	Ft. in DP <u>265</u>
Rec. <u>205</u> Feet of <u>CG540</u>	<u>15</u> %gas <u>85</u> %oil	%water _____	%mud _____
Rec. <u>60</u> Feet of <u>MC6540</u>	<u>10</u> %gas <u>70</u> %oil	%water <u>20</u>	%mud _____
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet of _____	%gas _____ %oil _____	%water _____	%mud _____
BHT <u>104</u> °F Gravity _____ °API D @ _____	°F Corrected Gravity <u>32</u> °API		
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>8500</u> ppm System	

AK-1

Alpine

(A) Initial Hydrostatic Mud	<u>1723</u> PSI	Recorder No. <u>6799</u>	Test _____
(B) First Initial Flow Pressure	<u>16</u> PSI	(depth) <u>3582</u>	Jars _____
(C) First Final Flow Pressure	<u>57</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>776</u> PSI	(depth) <u>3588</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>61</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>108</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>785</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1710</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
	Final Flow <u>45</u>		Ruined Packer _____
	Final Shut-In <u>60</u>		Mileage <u>24</u>

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 _____

Our Representative Dan Bangle

T-On Location

T-Started

T-Open

T-Pulled

T-Out

05:05

05:15

06:57

09:42

11:45

Sub Total: 942

Std. By _____

Other _____

Total: _____

CHART PAGE

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