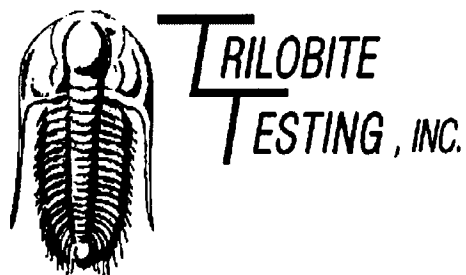


15-051-25401

4-13s-17w



DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp.**

PO Box 486
Ellinwood KS 67526

ATTN: James C Musgrove

4-13s-17w Ellis

Staab A #3

Start Date: 2005.05.08 @ 23:40:05

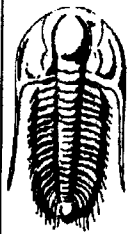
End Date: 2005.05.09 @ 06:33:20

Job Ticket #: 22788 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.

PO Box 486
Ellinwood KS 67526

ATTN: James C Musgrove

Staab A #3

4-13s-17w Ellis

Job Ticket: 22788

DST#: 1

Test Start: 2005.05.08 @ 23:40:05

GENERAL INFORMATION:

Formation: **KC**

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

Time Tool Opened: 01:36:20

Time Test Ended: 06:33:20

Test Type: **Conventional Bottom Hole**

Tester: **Michael**

Unit No: **15**

Interval: **3296.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Total Depth: **3380.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2069.00 ft (KB)**

2064.00 ft (CF)

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

Serial #: 8166

Inside

Press@RunDepth: **96.04 psig @ 3297.00 ft (KB)**

Start Date: **2005.05.08**

End Date:

2005.05.09

Capacity: **7000.00 psig**

Last Calib.: **2005.05.09**

Start Time: **23:40:06**

End Time:

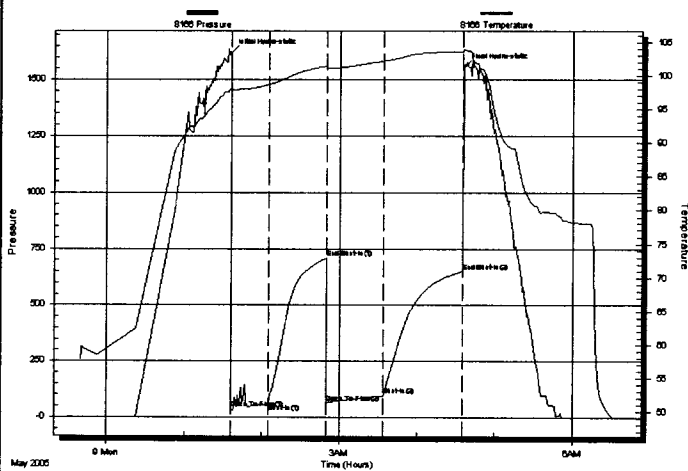
06:33:20

Time On Btm: **2005.05.09 @ 01:35:50**

Time Off Btm: **2005.05.09 @ 04:35:35**

TEST COMMENT: F- Bottom of the bucket 10 Mn.
ISI- Surface blow back
FF-Bottom of the bucket 8 min.
FSI-Surface blow back died after 10 min

Pressure vs. Time



PRESSURE SUMMARY

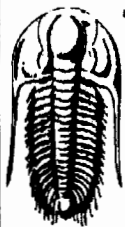
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.04	98.09	Initial Hydro-static
1	36.91	97.69	Open To Flow (1)
30	58.74	98.71	Shut-In(1)
74	708.25	101.44	End Shut-In(1)
75	65.20	101.23	Open To Flow (2)
118	96.04	102.23	Shut-In(2)
180	652.15	103.58	End Shut-In(2)
180	1557.94	104.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Salt water	0.70
90.00	Muddy oil 50%r 50%o	1.26
52.00	Muddy Oil Water 50%r 40%o 10%w	0.73

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp.

Staab A #3

PO Box 486
Elinwood KS 67526

4-13s-17w Ellis

Job Ticket: 22788

DST#: 1

ATTN: James C Musgrove

Test Start: 2005.05.08 @ 23:40:05

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.80 inches	Volume: 46.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 47000.00 lb
		Total Volume: 46.08 bbl		Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3296.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	105.00 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			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Packer	5.00			3291.00	21.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Blank Spacing	1.00			3297.00	
Recorder	0.00	8166	Inside	3297.00	
Perforations	5.00			3302.00	
Change Over Sub	1.00			3303.00	
Drill Pipe	60.00			3363.00	
Change Over Sub	1.00			3364.00	
Perforations	13.00			3377.00	
Recorder	0.00	11020	Outside	3377.00	
Bullnose	3.00			3380.00	84.00 Bottom Packers & Anchor

Total Tool Length: 105.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp.

Staab A #3

PO Box 486
Ellinwood KS 67526

4-13s-17w Ellis

Job Ticket: 22788

DST#: 1

ATTN: James C Musgrove

Test Start: 2005.05.08 @ 23:40:05

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Salt water	0.701
90.00	Muddy oil 50%m 50%o	1.262
52.00	Muddy Oil Water 50%m 40%o 10%w	0.729

Total Length: 192.00 ft Total Volume: 2.692 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

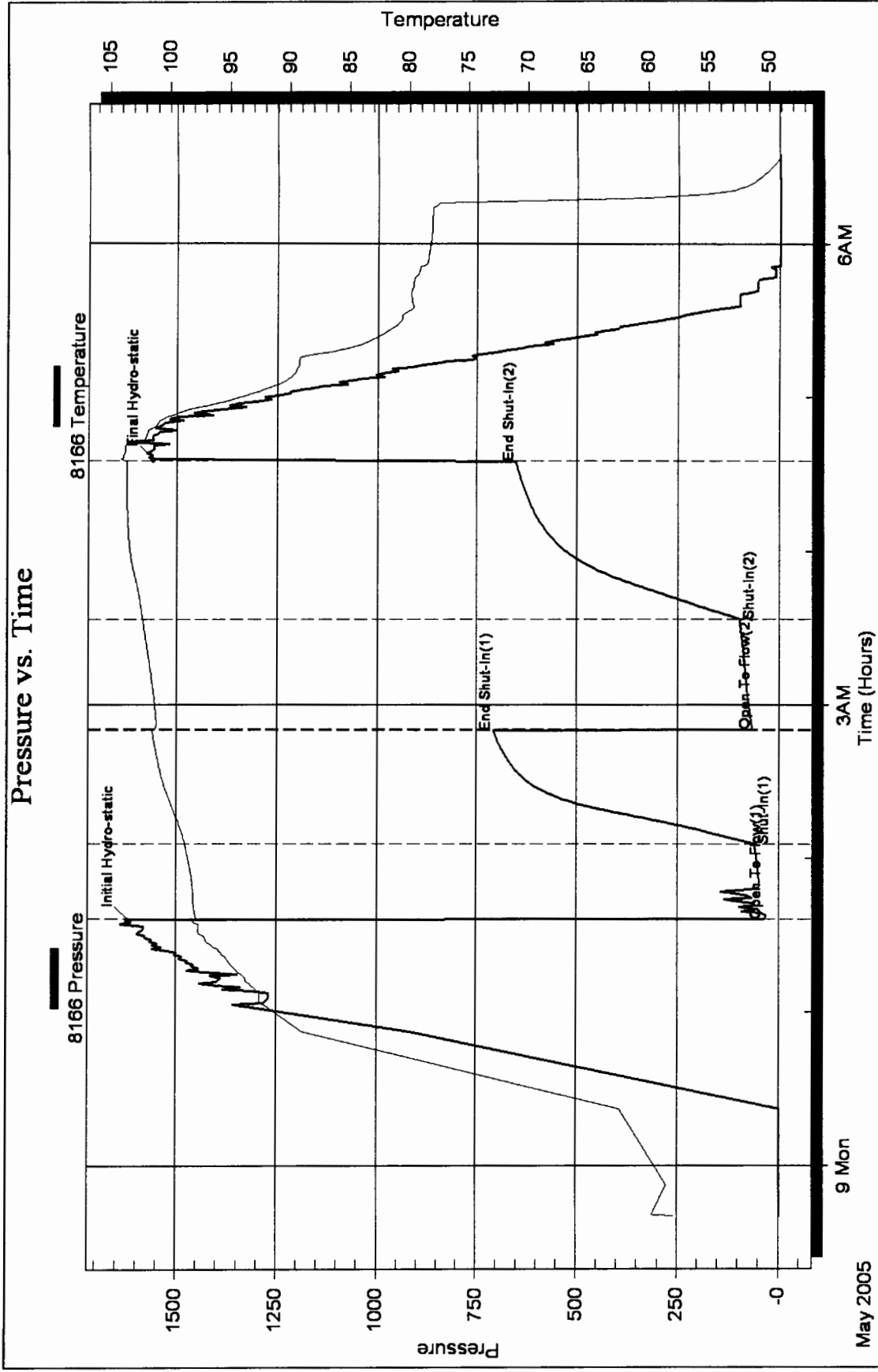
Recovery Comments: 240 Ft of gas in pipe

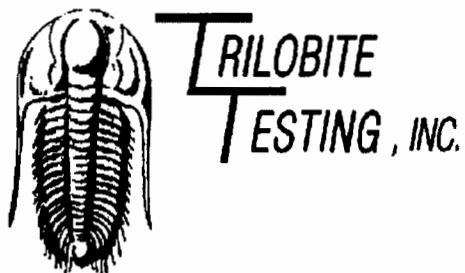
Serial #: 8166

Inside Grady Bolding Corp.

4-13s-17w Ellis

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Grady Bolding Corp.**

PO Box 486
Ellinwood KS 67526

ATTN: James C Musgrove

4-13s-17w Ellis

Staab A #3

Start Date: 2005.05.09 @ 15:50:04

End Date: 2005.05.09 @ 22:29:04

Job Ticket #: 22789 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Grady Bolding Corp.

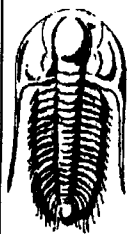
Staab A #3

4-13s-17w Ellis

DST # 2

KC

2005.05.09



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Grady Bolding Corp.

Staab A #3

PO Box 486
Ellinwood KS 67526

4-13s-17w Ellis

Job Ticket: 22789

DST#: 2

ATTN: James C Musgrove

Test Start: 2005.05.09 @ 15:50:04

GENERAL INFORMATION:

Formation: **KC**

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

Time Tool Opened: 17:46:49

Time Test Ended: 22:29:04

Test Type: **Conventional Bottom Hole**

Tester: **Michael**

Unit No: **15**

Interval: **3400.00 ft (KB) To 3442.00 ft (KB) (TVD)**

Reference Elevations: **2069.00 ft (KB)**

Total Depth: **3442.00 ft (KB) (TVD)**

2064.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

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

Serial #: 8166

Inside

Press@RunDepth: **25.94 psig @ 3406.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.05.09** End Date: **2005.05.09**

Last Calib.: **2005.05.09**

Start Time: **15:50:05** End Time: **22:29:04**

Time On Btm: **2005.05.09 @ 17:46:34**

Time Off Btm: **2005.05.09 @ 20:31:19**

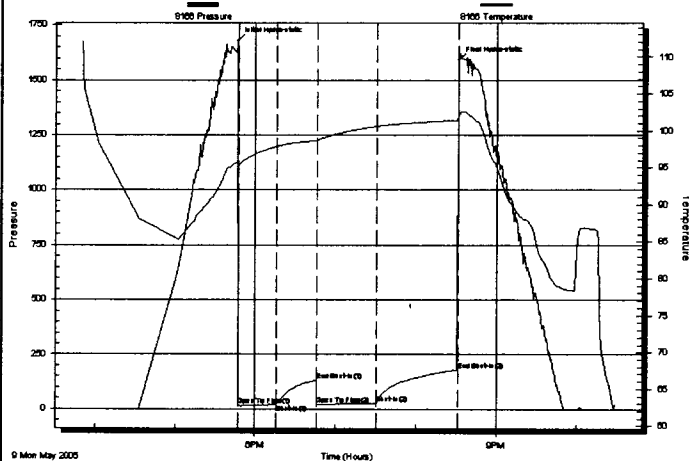
TEST COMMENT: IF- Bottom of the bucket in 23 min

IS- No blow back

FF- Bottom of the bucket in 9 min

FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

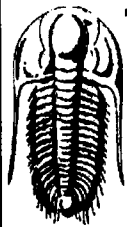
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.76	95.78	Initial Hydro-static
1	15.32	95.35	Open To Flow (1)
29	20.30	97.88	Shut-In(1)
60	131.78	98.74	End Shut-In(1)
60	23.58	98.71	Open To Flow (2)
104	25.94	100.60	Shut-In(2)
165	179.57	101.45	End Shut-In(2)
165	1590.86	101.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	Gas in pipe	5.33
40.00	Drilling mud	0.56

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grady Bolding Corp.

Staab A #3

PO Box 486
Ellinwood KS 67526

4-13s-17w Ellis

Job Ticket: 22789

DST#: 2

ATTN: James C Musgrove

Test Start: 2005.05.09 @ 15:50:04

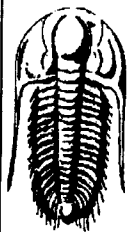
Tool Information

Drill Pipe:	Length:	3376.00 ft	Diameter:	3.80 inches	Volume:	47.36 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 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:	47.36 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:				-3.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:				3400.00 ft			Final	34000.00 lb
Depth to Bottom Packer:				ft				
Interval between Packers:				42.00 ft				
Tool Length:				63.00 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			3380.00	
Shut In Tool	5.00			3385.00	
Hydraulic tool	5.00			3390.00	
Packer	5.00			3395.00	21.00 Bottom Of Top Packer
Packer	5.00			3400.00	
Blank Spacing	1.00			3401.00	
Perforations	5.00			3406.00	
Recorder	0.00	8166	Inside	3406.00	
Change Over Sub	1.00			3407.00	
Drill Pipe	30.00			3437.00	
Change Over Sub	1.00			3438.00	
Perforations	1.00			3439.00	
Recorder	0.00	11020	Outside	3439.00	
Bullnose	3.00			3442.00	42.00 Bottom Packers & Anchor

Total Tool Length: 63.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Grady Bolding Corp.

Staab A #3

PO Box 486
Ellinwood KS 67526

4-13s-17w Ellis

Job Ticket: 22789

DST#: 2

ATTN: James C Musgrove

Test Start: 2005.05.09 @ 15:50:04

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	Gas in pipe	5.330
40.00	Drilling mud	0.561

Total Length: 420.00 ft

Total Volume: 5.891 bbl

Num Fluid Samples: 0

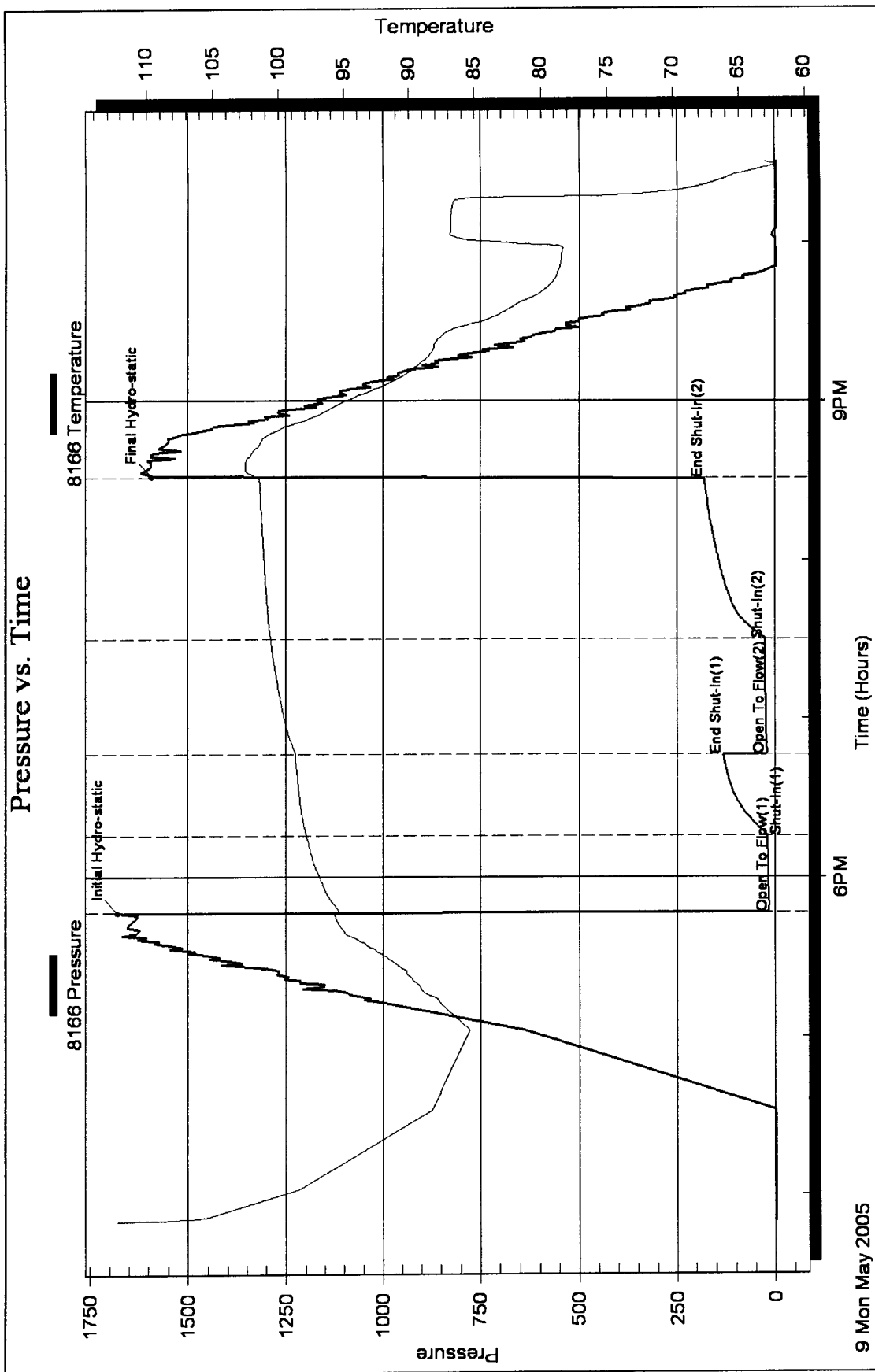
Num Gas Bombs: 0

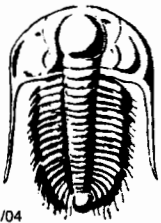
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9/04

INV
7465

No 22788

Test Ticket

Well Name & No. <u>Marion Staab A #3</u>	Test No. <u>1</u>	Date <u>5-8-05</u>
Company <u>Grady Bolding Corp.</u>	Zone Tested <u>KC</u>	
Address <u>P.O. Box 486 Ellinwood KS 67526</u>	Elevation <u>2069</u>	KB <u>2064</u> GL
Co. Rep / Geo. <u>James C. Musgrove</u>	Cont. <u>Vonfeldt</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>13s</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>3294 - 3380</u>	Initial Str Wt./Lbs. <u>35000</u>	Unseated Str Wt./Lbs. _____
Anchor Length <u>84 Ft</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>47,000</u>
Top Packer Depth <u>3291</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3294</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3380</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.0</u> LCM <u>1#</u> Vis. <u>47</u> WL <u>9.2</u>	Drill Pipe Size <u>4 1/2</u>	Ft. Run <u>3285</u>

Blow Description IF - Bottom of bucket 10 min
ISI - Surface blow back
FF Bottom of the bucket 8 min
FSI - Surface blow back died after 10 min

Recovery - Total Feet <u>192</u>	GIP <u>240 Ft</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>52</u>	Feet of <u>Muddy Oil Water</u>	%gas <u>40</u>	%oil <u>10</u> %water <u>50</u> %mud
Rec. <u>90</u>	Feet of <u>Muddy Oil</u>	%gas <u>50</u>	%oil _____ %water <u>50</u> %mud
Rec. <u>50</u>	Feet of <u>Salt water</u>	%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 _____ °API
RW _____ @ _____ °F	Chlorides <u>2000</u> ppm	Recovery _____	Chlorides _____ ppm System

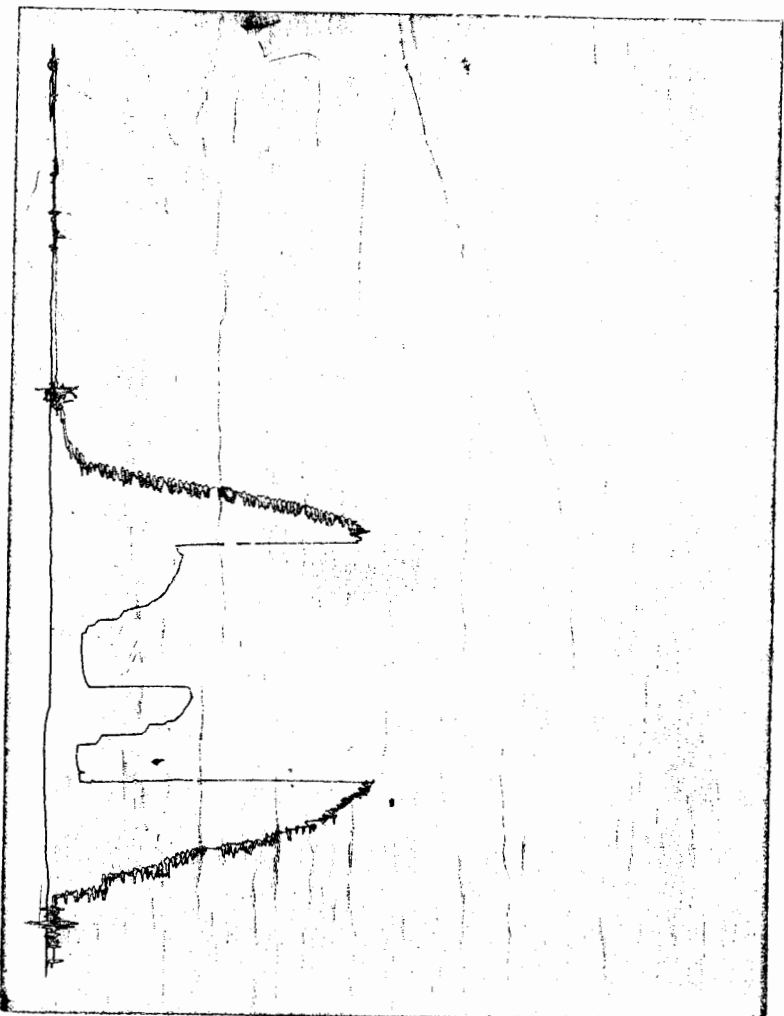
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1618</u>	PSI	<u>8166</u>	<u>950</u>
(B) First Initial Flow Pressure	<u>37</u>	PSI	(depth) <u>3297</u>	Jars _____
(C) First Final Flow Pressure	<u>59</u>	PSI	Recorder No. <u>11020</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>708</u>	PSI	(depth) <u>3377</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>65</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>96</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>652</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1558</u>	PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>45</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>1220</u> <u>20</u>
			T-On Location <u>19:00</u>	Sub Total: <u>970</u>
			T-Started <u>23:40</u>	Std. By <u>35</u> <u>105</u>
			T-Open <u>1:35</u>	Other _____
			T-Pulled <u>4:35</u>	Total: <u>1075</u>
			T-Out <u>6:30</u>	

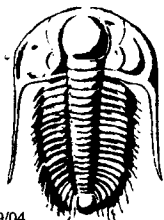
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Grady Bolding

Our Representative Michael Armbrister

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22789

9/04

Test Ticket

Well Name & No. <u>Marion Staab A #3</u>	Test No. <u>2</u>	Date <u>5-9-05</u>
Company <u>Grady Bolding Corp.</u>	Zone Tested <u>KC</u>	
Address <u>P.O. Box 486 Ellinwood KS 67526</u>	Elevation <u>2069</u> KB <u>2064</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>13s</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>3400 - 3442</u>	Initial Str Wt./Lbs. <u>30,000</u>	Unseated Str Wt./Lbs. <u>34,000</u>
Anchor Length <u>42</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>42,000</u>
Top Packer Depth <u>3395</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>3400</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u> ☒
Total Depth <u>3442</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.3</u> LCM <u>Trace</u> Vis. <u>45</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2</u>	Ft. Run <u>3376</u>
Blow Description <u>IF - Bottom of bucket in 23 min</u>		
<u>ISI - No blow back</u>		
<u>FF - Bottom of bucket 9 min</u>		
<u>FS - No blow back</u>		

Recovery - Total Feet <u>420</u>	GIP <u>380</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>40</u>	Feet of <u>Drilling mud</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 _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
BHT <u>101</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides _____ ppm System _____

(A) Initial Hydrostatic Mud	AK-1 <u>1678</u> PSI	Alpine	Recorder No. <u>8166</u>	Test <u>950</u>
(B) First Initial Flow Pressure	<u>15</u> PSI		(depth) <u>3406</u>	Jars _____
(C) First Final Flow Pressure	<u>20</u> PSI		Recorder No. <u>1020</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>132</u> PSI		(depth) <u>3439</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>24</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>26</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>180</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1591</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____

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Approved By Grady Bolding

Our Representative Michael Armbrister

Final Flow <u>45</u>		
Final Shut-In <u>60</u>		
T-On Location <u>14:30</u>		
T-Started <u>15:50</u>		
T-Open <u>17:45</u>		
T-Pulled _____		
T-Out _____		
		Sub Total: <u>970</u>
		Std. By <u>_____</u>
		Other _____
		Total: _____

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

