

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name AUGUSTINE #1 Test No. 1 Date 9/14/93
Company CHARTER PRODUCTION COMPANY Zone UPPER SD "B"
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 2085
Co. Rep./Geo. ERNIE MORRISON Cont. MURFIN RIG #2 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 14S Rge. 22W Co. TREGO State KS

Interval Tested 4088-4133 Drill Pipe Size 4.5" XH
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4083 Drill Collar - 2.25 Ft. Run 464
Bottom Packer Depth 4088 Mud Wt. 9.3 lb/Gal.
Total Depth 4133 Viscosity 48 Filtrate 10.4

Tool Open @ 8:13 PM Initial Blow WEAK-DIED IN 14 MINUTES

Final Blow NO BLOW

Recovery - Total Feet 5 Flush Tool? NO

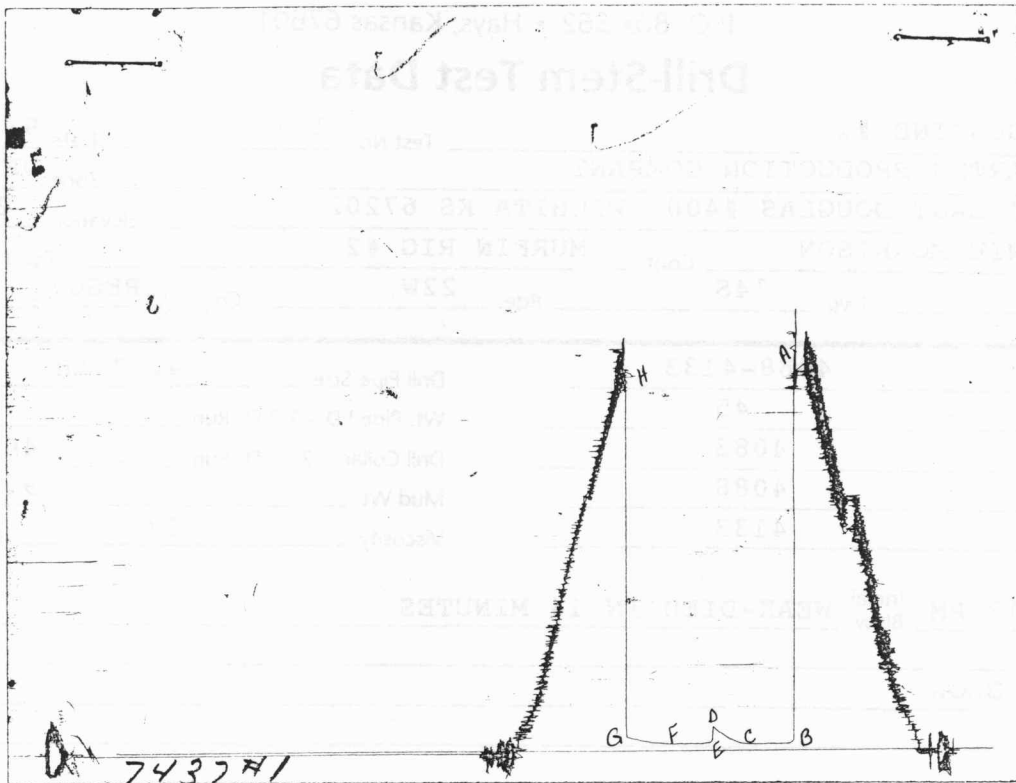
Rec. 5 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1980.1 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 66.0 PSI @ (depth) 4092 w / Clock No. 27501
(C) First Final Flow Pressure 66.0 PSI AK1 Recorder No. 7437 Range 4200
(D) Initial Shut-in Pressure 101.1 PSI @ (depth) 4129 w / Clock No. 27567
(E) Second Initial Flow Pressure 67.1 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 67.1 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 80.2 PSI Initial Opening 30 Final Flow 30
(H) Final Hydrostatic Mud 1933.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1986	1980.1
(B) FIRST INITIAL FLOW PRESSURE	68	66
(C) FIRST FINAL FLOW PRESSURE	68	66
(D) INITIAL CLOSED-IN PRESSURE	98	101.1
(E) SECOND INITIAL FLOW PRESSURE	68	67.1
(F) SECOND FINAL FLOW PRESSURE	68	67.1
(G) FINAL CLOSED-IN PRESSURE	78	80.2
(H) FINAL HYDROSTATIC MUD	1936	1933.4

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Test Ticket

No. 6226

Well Name & No. <u>Augustine #1</u>	Test No. <u>1</u>	Date <u>9-14-93</u>
Company <u>Charter Production Co.</u>	Zone Tested <u>Upper Sd 'B'</u>	
Address <u>224 E. Douglas, Wichita, Ks. 67202</u>	Elevation <u>2085 K.B.</u>	
Co. Rep./Geo. <u>Ernie Morrison Cont. Muffin #2</u>	Est. Ft. of Pay _____	
Location: Sec. <u>15</u> Twp. <u>14</u> Rge. <u>22</u> Co. <u>Trego</u> State <u>Ks.</u>		
No. of Copies <u>10</u> Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____		

Interval Tested <u>4088 - 4133</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>45'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4083</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>4088</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4133</u>	Drill Collar — 2.25 Ft. Run <u>464</u>
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>48</u> Filtrate <u>10.4</u>
Tool Open @ <u>8:13 p.m.</u> Initial Blow <u>Weak - Died in 14 min.</u>	
Final Blow <u>No blow</u>	

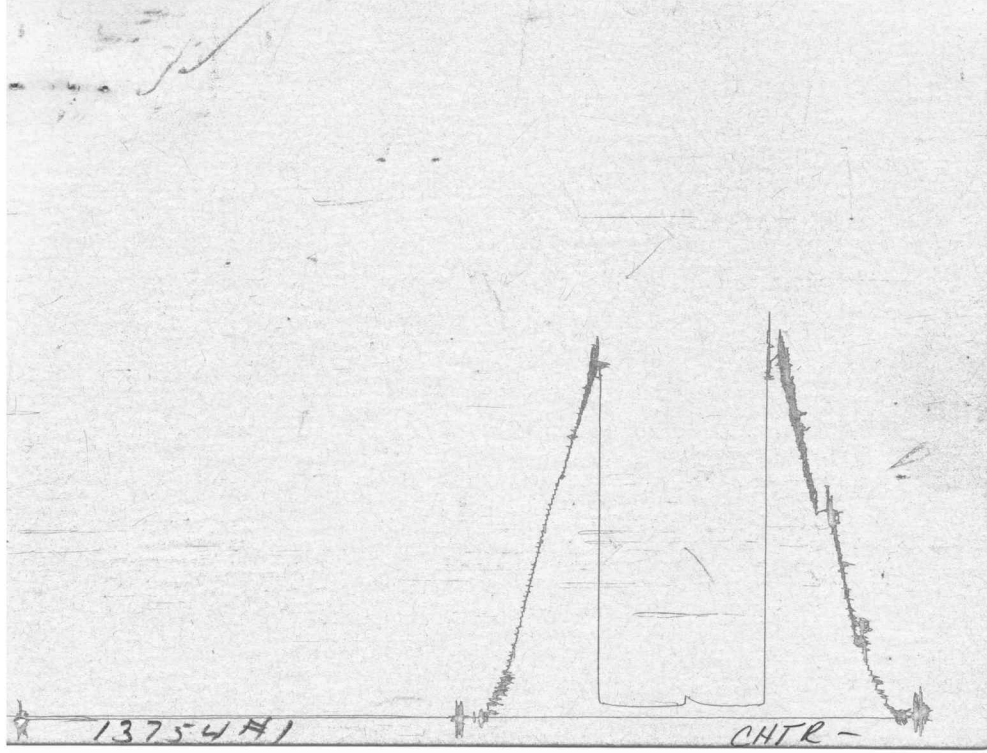
Recovery — Total Feet <u>5'</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>5'</u> Feet Of <u>D.M.</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>118</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>5,000</u> ppm System
(A) Initial Hydrostatic Mud <u>1986</u> PSI AK1 Recorder No. <u>13754</u> Range <u>4000</u>
(B) First Initial Flow Pressure <u>68</u> PSI @ (depth) <u>4092</u> w/Clock No. <u>27501</u>
(C) First Final Flow Pressure <u>68</u> PSI AK1 Recorder No. <u>7437</u> Range <u>4200</u>
(D) Initial Shut-In Pressure <u>98</u> PSI @ (depth) <u>4129</u> w/Clock No. <u>27567</u>
(E) Second Initial Flow Pressure <u>68</u> PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>68</u> PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>78</u> PSI Initial Opening <u>30</u> Test <u>600.00</u>
(H) Final Hydrostatic Mud <u>1936</u> PSI Initial Shut-In <u>30</u> Jars <u>X</u> <u>200.00</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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.

Final Flow <u>30</u> Safety Joint <u>X</u> <u>50.00</u>
Final Shut-In <u>30</u> Straddle _____

Approved By <u>Ernie Morrison</u>	Circ. Sub _____
Our Representative <u>Dan Rangle</u>	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>850.00</u>



TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name AUGUSTINE #1 Test No. 2 Date 9/15/93
Company CHARTER PRODUCTION COMPANY Zone LWR SAND
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 2085
Co. Rep./Geo. ERNIE MORRISON Cont. MURFIN RIG #2 Est. Ft. of Pay _____
Location: Sec. 15 Twp. 14S Rge. 22W Co. TREGO State KS

Interval Tested	<u>4088-4160</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>72</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4083</u>	Drill Collar - 2.25 Ft. Run	<u>464</u>
Bottom Packer Depth	<u>4088</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4160</u>	Viscosity	<u>61</u>
		Filtrate	<u>10.4</u>

Tool Open @ 9:35 AM Initial Blow STRONG-BOTTOM OF BUCKET IN 2 MINUTES

Final Blow STRONG-BOTTOM OF BUCKET IN 3 MINUTES

Recovery - Total Feet 1022 Flush Tool? NO

Rec. 1022 Feet of WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.18 @ 70 °F Chlorides 40000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 2281.3 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 210.1 PSI @ (depth) 4092 w / Clock No. 27501

(C) First Final Flow Pressure 460.3 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 993.1 PSI @ (depth) 4156 w / Clock No. 27567

(E) Second Initial Flow Pressure 558.3 PSI AK1 Recorder No. _____ Range _____

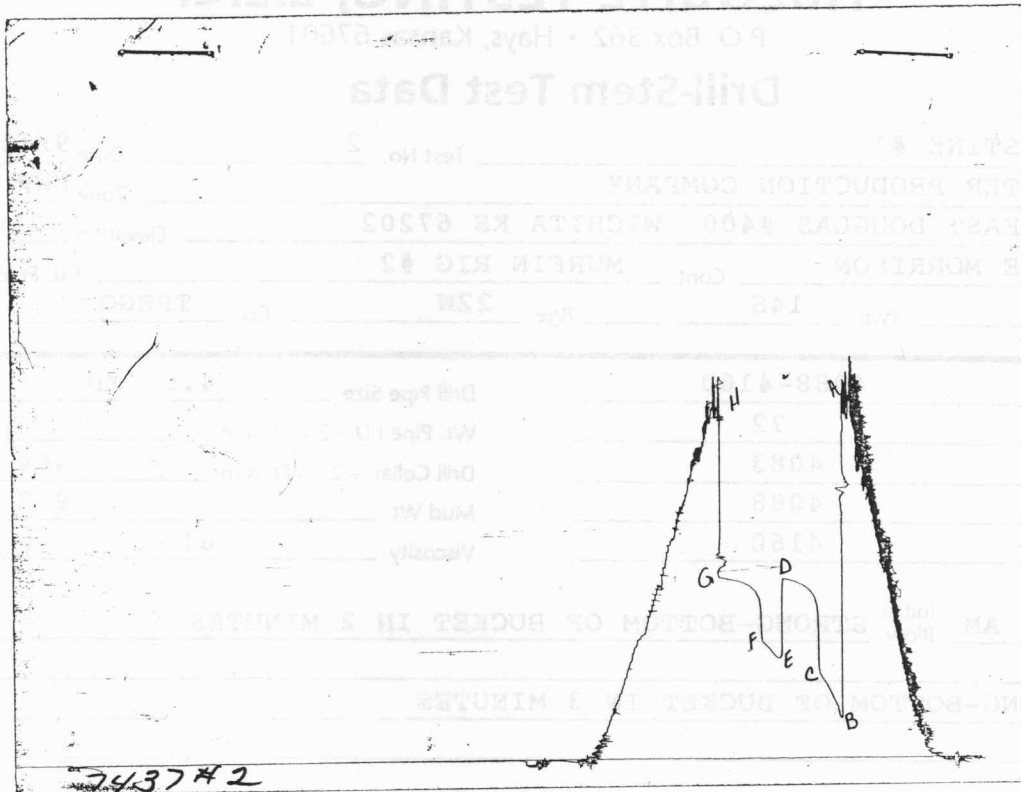
(F) Second Final Flow Pressure 667.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 995.3 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 2160.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2279	2281.3
(B) FIRST INITIAL FLOW PRESSURE	206	210.1
(C) FIRST FINAL FLOW PRESSURE	462	460.3
(D) INITIAL CLOSED-IN PRESSURE	996	993.1
(E) SECOND INITIAL FLOW PRESSURE	551	558.3
(F) SECOND FINAL FLOW PRESSURE	660	667.9
(G) FINAL CLOSED-IN PRESSURE	996	995.3
(H) FINAL HYDROSTATIC MUD	2168	2160.7

TRILOBITE TESTING L.L.C.

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Test Ticket

No 6227

Well Name & No. <u>Augustine #1</u>	Test No. <u>2</u>	Date <u>9-15-93</u>
Company <u>Charter Production Co.</u>	Zone Tested <u>lower 5d</u>	
Address _____	Elevation <u>2085 K.B.</u>	
Co. Rep./Geo. <u>Ernie Morrison</u>	Cont. <u>Murfin #2</u>	Est. Ft. of Pay _____
Location: Sec. <u>15</u>	Twp. <u>14</u>	Rge. <u>22</u> Co. <u>Trego</u> State <u>Ks.</u>
No. of Copies <u>10</u>	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>4088 - 4160</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>72</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4083</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4088</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4160</u>	Drill Collar — 2.25 Ft. Run <u>464</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>61</u> Filtrate <u>10.4</u>
Tool Open @ <u>9:35 a.m.</u>	Initial Blow <u>Strong - B.O.B in 2 min.</u>

Final Blow Strong - B.O.B in 3 min.

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?				
Rec. <u>1022</u>	Feet Of <u>WTR.</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 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .18 @ 20 °F Chlorides 40,000 ppm Recovery Chlorides 5,000 ppm System

- (A) Initial Hydrostatic Mud 2279 PSI AK1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 206 PSI @ (depth) 4092 w/Clock No. 27501
- (C) First Final Flow Pressure 462 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 996 PSI @ (depth) 4156 w/Clock No. 27567
- (E) Second Initial Flow Pressure 551 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 660 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 996 PSI Initial Opening 15 Test 600
- (H) Final Hydrostatic Mud 2168 PSI Initial Shut-In 30 Jars X 200

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Final Flow 15 Safety Joint X 50

Final Shut-In 30 Straddle _____

Approved By Ernie Morrison

Our Representative Dan Banoff

Circ. Sub _____

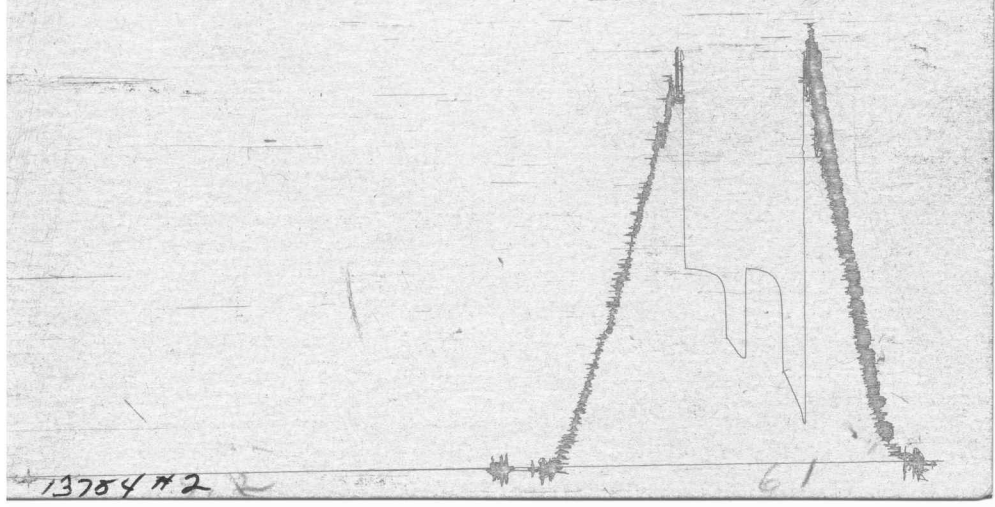
Sampler _____

Extra Packer _____

Other extra copies

TOTAL PRICE \$ 850.00

(CNR)



13784 #2

61