

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601



00524133

Drill-Stem Test Data

Well Name STATE-WINSHIP #1 Test No. 1 Date 5/17/92
Company MULL DRILLING CO., INC. Zone MARMATON
Address BOX 2758 WICHITA KS 67202 Elevation 4462
Co. Rep./Geo. ROGER MARTIN Cont. KUDU DRLG Est. Ft. of Pay _____
Location: Sec. 16 Twp. 16S Rge. 51W Co. CHEYENNE State CO

Interval Tested <u>4804-4840</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>36</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>4799</u>	Drill Collar - 2.25 Ft. Run <u>543</u>
Bottom Packer Depth <u>4804</u>	Mud Wt. <u>9.1</u> lb/Gal.
Total Depth <u>4840</u>	Viscosity <u>56</u> Filtrate <u>8.8</u>

Tool Open @ 1:46 PM Initial Blow WEAK SURFACE BLOW TO 4.5" IN 30 MINUTES

Final Blow WEAK SURFACE BLOW TO 10" IN 90 MINUTES

Recovery - Total Feet 465 Flush Tool? NO

Rec. <u>185</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>100</u>	Feet of <u>MUD</u>
Rec. <u>365</u>	Feet of <u>MUDDY WATER-85%WTR/15%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.24 @ _____ °F Chlorides 28000 ppm Recovery Chlorides 800 ppm System

(A) Initial Hydrostatic Mud 2315.6 PSI AK1 Recorder No. 2023 Range 4000

(B) First Initial Flow Pressure 35.6 PSI @ (depth) 4809 w / Clock No. 7452

(C) First Final Flow Pressure 70.8 PSI AK1 Recorder No. 13308 Range 4700

(D) Initial Shut-in Pressure 1448.9 PSI @ (depth) 4835 w / Clock No. 8689

(E) Second Initial Flow Pressure 104.6 PSI AK1 Recorder No. _____ Range _____

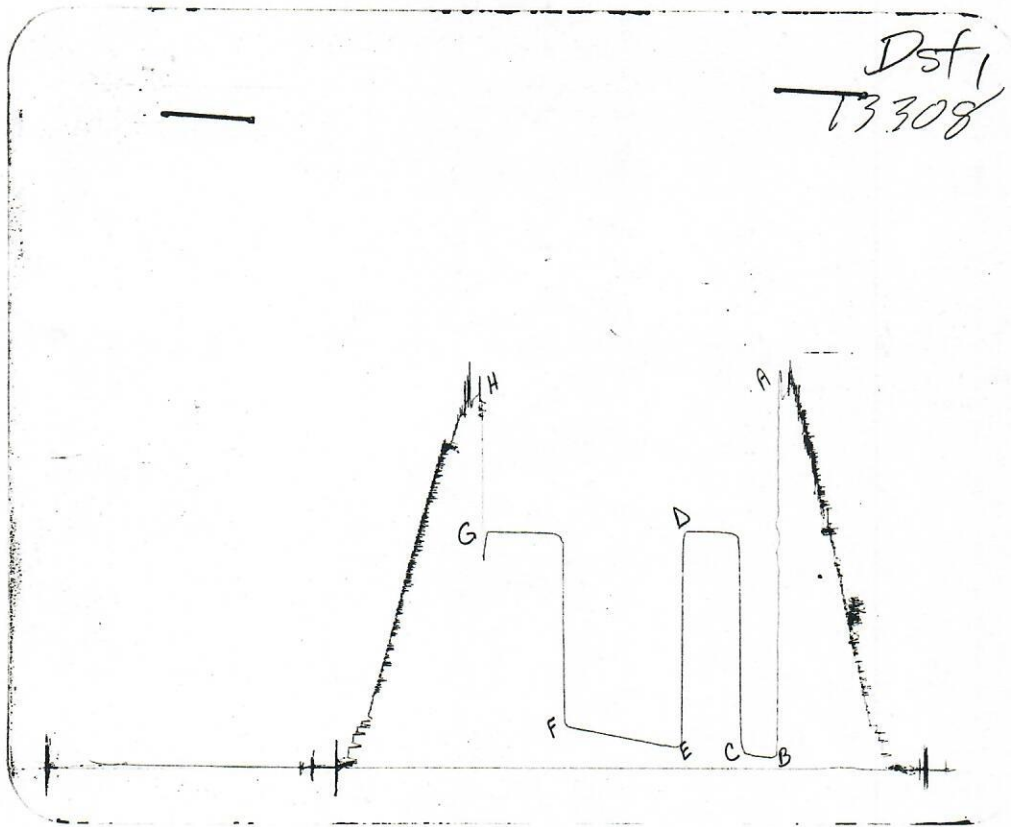
(F) Second Final Flow Pressure 266.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1439.8 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2265.8 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2311	2315.6
(B) FIRST INITIAL FLOW PRESSURE	33	35.6
(C) FIRST FINAL FLOW PRESSURE	66	70.8
(D) INITIAL CLOSED-IN PRESSURE	1440	1448.9
(E) SECOND INITIAL FLOW PRESSURE	98	104.6
(F) SECOND FINAL FLOW PRESSURE	262	266.9
(G) FINAL CLOSED-IN PRESSURE	1440	1439.8
(H) FINAL HYDROSTATIC MUD	2270	2265.8

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4611

Well Name & No. <u>State - Winship 1[#]</u>	Test No. <u>1</u>	Date <u>5-17-82</u>
Company <u>Mull Drilling Co. Inc</u>	Zone Tested <u>MARION</u>	
Address <u>Box 2758 Wichita KS</u>	Elevation _____	
Co. Rep./Geo. <u>ROGER MARTIN</u>	Cont. _____	Est. Ft. of Pay <u>4462</u>
Location: Sec. <u>16</u>	Twp. <u>16S</u>	Rge. <u>51W</u> Co. <u>CHRYSLER</u> State <u>CO</u>
No. of Copies _____	Distribution Sheet <input checked="" type="checkbox"/> Yes _____ No _____	Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>4804 - 4840</u>	Drill Pipe Size <u>4 1/2 X H</u>
Anchor Length <u>36</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4789</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4804</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4840</u>	Drill Collar — 2.25 Ft. Run <u>543</u>
Mud Wt. <u>9.1</u> <u>LCM 2</u> lb/gal.	Viscosity <u>56</u> Filtrate <u>8.8</u>
Tool Open @ <u>1:46 PM</u> Initial Blow <u>WEAK SUR BLOW TO 4 1/2" IN 30 MIN</u>	

Final Blow WEAK SUR BLOW TO 10" IN 90 MIN

Recovery — Total Feet <u>465</u>	Feet of Gas in Pipe <u>185</u>	Flush Tool? _____
Rec. <u>100</u> Feet Of <u>MUD</u>	%gas _____ %oil _____ %water <u>100</u> %mud _____	
Rec. <u>365</u> Feet Of <u>MUD, WATER</u>	%gas _____ %oil <u>85</u> %water <u>15</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>124</u> °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW <u>0.24</u> @ <u>73</u> °F Chlorides <u>2800</u> ppm Recovery Chlorides <u>800</u> ppm System
(A) Initial Hydrostatic Mud <u>2311</u> PSI AK1 Recorder No. <u>2023</u> Range <u>4000</u>
(B) First Initial Flow Pressure <u>33</u> PSI @ (depth) <u>4809</u> w/Clock No. <u>7452</u>
(C) First Final Flow Pressure <u>66</u> PSI AK1 Recorder No. <u>13308</u> Range <u>4700</u>
(D) Initial Shut-In Pressure <u>1440</u> PSI @ (depth) <u>4835</u> w/Clock No. <u>8489</u>
(E) Second Initial Flow Pressure <u>98</u> PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>262</u> PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure <u>1440</u> PSI Initial Opening <u>30</u> Test <input checked="" type="checkbox"/> <u>550.00</u>
(H) Final Hydrostatic Mud <u>2270</u> PSI Initial Shut-In <u>45</u> Jars <input checked="" type="checkbox"/> <u>200.00</u>

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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>90</u>	Safety Joint <input checked="" type="checkbox"/> <u>50.00</u>
Final Shut-In <u>60</u>	Straddle _____
	Circ. Sub <input checked="" type="checkbox"/> <u>NC</u>
	Sampler _____
	Extra Packer _____
	Other _____

Approved By Roger Martin
 Our Representative Mark Hershberg

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name STATE-WINSHIP #1 Test No. 2 Date 5/21/92
Company MULL DRILLING CO., INC. Zone ST LOUIS
Address BOX 2758 WICHITA KS 67202 Elevation 4462
Co. Rep./Geo. ROGER MARTIN Cont. KUDU DRLG Est. Ft. of Pay _____
Location: Sec. 16 Twp. 16S Rge. 51W Co. CHEYENNE State CO

Interval Tested <u>5675-5720</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>45</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>5670</u>	Drill Collar - 2.25 Ft. Run <u>543</u>
Bottom Packer Depth <u>5675</u>	Mud Wt. <u>9.1</u> lb/Gal.
Total Depth <u>5720</u>	Viscosity <u>66</u> Filtrate <u>8</u>

Tool Open @ 3:51 PM Initial Blow GOOD BLOW OFF BOTTOM IN 26 MINUTES

Final Blow WEAK BLOW TO 10" IN 90 MINUTES

Recovery - Total Feet 100 Flush Tool? NO

Rec. <u>535</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>100</u>	Feet of <u>SLTLY OIL STAINED WATERY MUD-5%OIL/20%WTR/75%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 138 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.24 @ _____ °F Chlorides 22000 ppm Recovery Chlorides 700 ppm System

(A) Initial Hydrostatic Mud 2841.3 PSI AK1 Recorder No. 2023 Range 4000

(B) First Initial Flow Pressure 25.6 PSI @ (depth) 5680 w / Clock No. 7452

(C) First Final Flow Pressure 35.6 PSI AK1 Recorder No. 13308 Range 4700

(D) Initial Shut-in Pressure 966.2 PSI @ (depth) 5715 w / Clock No. 8689

(E) Second Initial Flow Pressure 50.8 PSI AK1 Recorder No. _____ Range _____

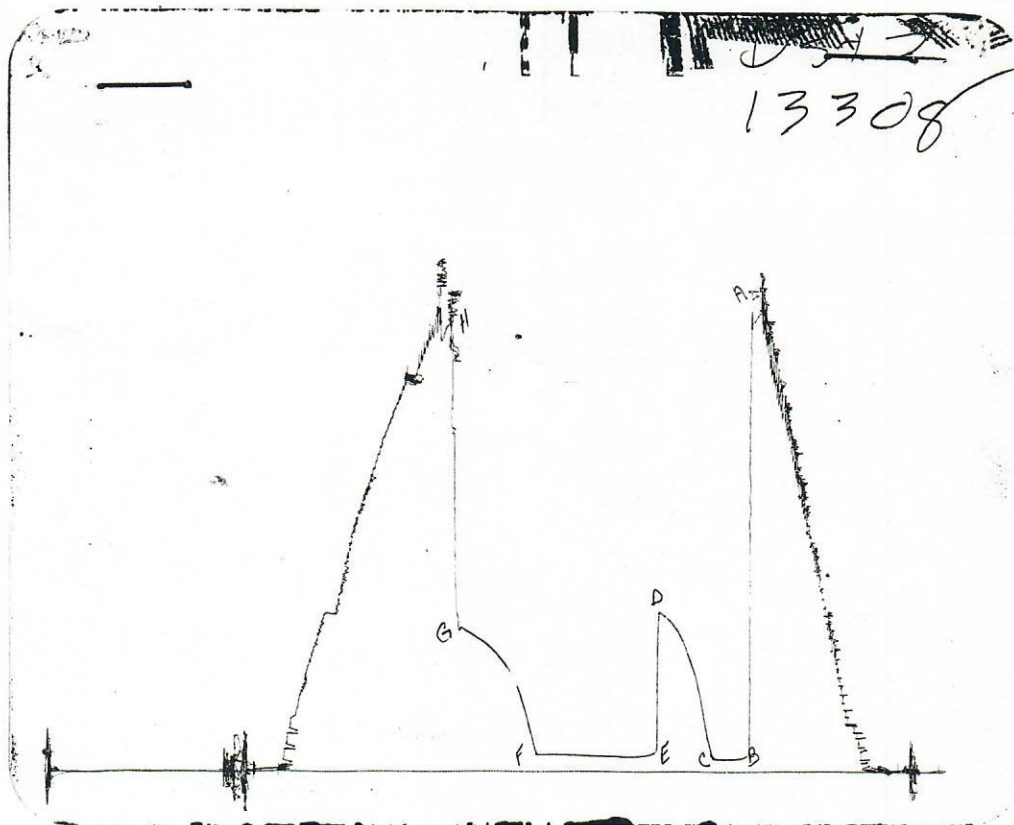
(F) Second Final Flow Pressure 70.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 873.5 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2780.9 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2834	2841.3
(B) FIRST INITIAL FLOW PRESSURE	22	25.6
(C) FIRST FINAL FLOW PRESSURE	33	35.6
(D) INITIAL CLOSED-IN PRESSURE	964	966.2
(E) SECOND INITIAL FLOW PRESSURE	44	50.8
(F) SECOND FINAL FLOW PRESSURE	66	70.8
(G) FINAL CLOSED-IN PRESSURE	867	873.5
(H) FINAL HYDROSTATIC MUD	2774	2780.9

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4612

Well Name & No. <u>State Winship 1#</u>	Test No. <u>2</u>	Date <u>5-21-92</u>
Company <u>Mull Drilling Co Inc</u>	Zone Tested <u>St Louis</u>	
Address <u>Box 2758 Wichita Ks</u>	Elevation <u>4462</u>	
Co. Rep./Geo. <u>ROGER MARTIN</u>	Cont. _____	Est. Ft. of Pay _____
Location: Sec. <u>16</u>	Twp. <u>16s</u>	Rge. <u>51W</u>
Co. <u>Cheyenne</u>		State <u>C</u>
No. of Copies <u>4</u>	Distribution Sheet <u>X</u>	Yes _____ No _____
Turnkey _____	Yes _____ No _____	Evaluation _____

Interval Tested <u>5675-5720</u>	Drill Pipe Size <u>4 1/2 x 11</u>
Anchor Length <u>45</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5670</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5675</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5720</u>	Drill Collar — 2.25 Ft. Run <u>543</u>
Mud Wt. <u>9.1</u> <u>lb/cm</u> <u>6#</u>	Viscosity <u>66</u> Filtrate <u>8.0</u>
Tool Open @ <u>3:51 PM</u>	Initial Blow <u>Good Blow OFF Bottom in 26 min</u>

Final Blow WEAK Blow to 10" in 90 min

Recovery — Total Feet <u>100</u>	Feet of Gas in Pipe <u>535</u>	Flush Tool? _____
Rec. <u>100</u>	Feet Of <u>510 W. Mud</u>	%gas <u>5</u> %oil <u>20</u> %water <u>75</u> %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>138</u>	°F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>0.24</u>	@ <u>80</u>	°F Chlorides <u>22000</u>	ppm Recovery Chlorides <u>700</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>2834</u>	PSI	AK1 Recorder No. <u>2023</u>	Range <u>4000</u>	
(B) First Initial Flow Pressure <u>22</u>	PSI	@ (depth) <u>5480</u>	w/Clock No. <u>7452</u>	
(C) First Final Flow Pressure <u>33</u>	PSI	AK1 Recorder No. <u>13308</u>	Range <u>4700</u>	
(D) Initial Shut-In Pressure <u>964</u>	PSI	@ (depth) <u>5715</u>	w/Clock No. <u>8689</u>	
(E) Second Initial Flow Pressure <u>44</u>	PSI	AK1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>44</u>	PSI	@ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>867</u>	PSI	Initial Opening <u>30</u>	Test <u>✓</u> <u>650.00</u>	
(H) Final Hydrostatic Mud <u>2774</u>	PSI	Initial Shut-In <u>45</u>	Jars <u>✓</u> <u>200.00</u>	

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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>90</u>	Safety Joint <u>✓</u> <u>50.00</u>
Final Shut-In <u>60</u>	Straddle _____

Circ. Sub ✓ .3501

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 935

Approved By _____

Our Representative Mull Drilling Co Inc