

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DIETZ #1 Test No. 1 Date 10/21/93  
Company CARMEN SCHMITT INC Zone LKC-"A"  
Address PO BOX 7 GREAT BEND KS 67530 Elevation 1955  
Co. Rep./Geo. STEVE PARKER Cont. SHIELDS DRLG CO INC Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 21 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3222-3260 Drill Pipe Size 4.5" FH  
Anchor Length 38 Wt. Pipe I.D. - 2.7 Ft. Run 882  
Top Packer Depth 3217 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3222 Mud Wt. 8.9 lb/Gal.  
Total Depth 3260 Viscosity 50 Filtrate 10.8

Tool Open @ 2:00 AM Initial Blow 1/2" BLOW BUILDING TO 6.5"  
Final Blow 1/4" BLOW BUILDING TO 4"

Recovery - Total Feet 75 Flush Tool? NO

Rec. 165 Feet of GAS IN PIPE  
Rec. 5 Feet of CLEAN OIL  
Rec. 10 Feet of SLTLY OIL CUT WATERY MUD-5% OIL/15% WTR/80% MUD  
Rec. 60 Feet of SLTLY OIL CUT WATERY MUD-5% OIL/ 35% WTR/ 60% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 101 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 1588.8 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 45.5 PSI @ (depth) 3225 w / Clock No. 22992

(C) First Final Flow Pressure 56.6 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 477.7 PSI @ (depth) 3259 w / Clock No. 30401

(E) Second Initial Flow Pressure 71.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

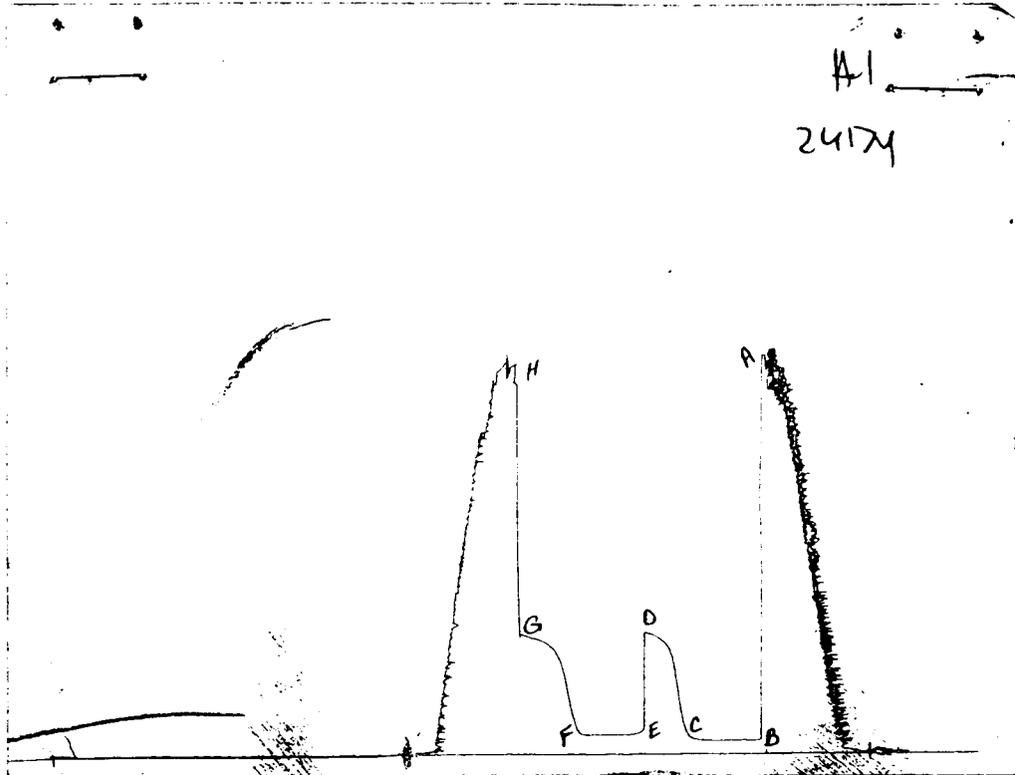
(F) Second Final Flow Pressure 72.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 471.1 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1544.4 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1583	1588.8
(B) FIRST INITIAL FLOW PRESSURE	44	45.5
(C) FIRST FINAL FLOW PRESSURE	52	56.6
(D) INITIAL CLOSED-IN PRESSURE	476	477.7
(E) SECOND INITIAL FLOW PRESSURE	67	71.1
(F) SECOND FINAL FLOW PRESSURE	67	72.2
(G) FINAL CLOSED-IN PRESSURE	468	471.1
(H) FINAL HYDROSTATIC MUD	1545	1544.4

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

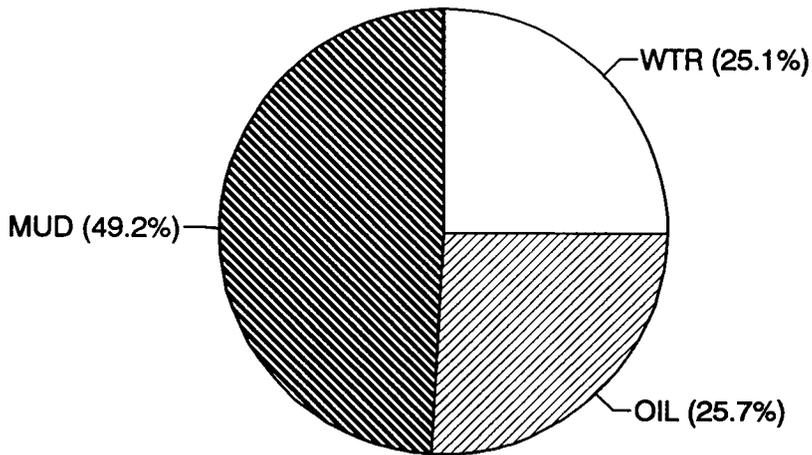
1

TICKET #

6251

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	5	0	0	100	5	0	0	0	0
2	10	0	0	5	15	15	1.5	80	8
3	60	0	0	5	3	35	21	60	36
4			0		0		0		0
5			0		0		0		0
TOTAL	75	0	0	30.666667	23	30	22.5	58.667	44

		HRS OPEN	BBL/DAY
BBL OIL=	0.161	*	1.5
BBL WATER=	0.1575	*	2.52
BBL MUD=	0.308		
BBL GAS=	0		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 6251

Well Name & No. <u>Dietz #1</u>		Test No. <u>1</u>	Date <u>10-21-93</u>
Company <u>Carmen Schmitt Inc</u>		Zone Tested <u>LRLA'</u>	
Address _____		Elevation <u>1955 KB</u>	
Co. Rep./Geo. <u>Steve Parker</u>	Cont. <u>Shields Drlg Corp</u>	Est. Ft. of Pay _____	
Location: Sec. <u>21</u>	Twp. <u>16s</u>	Rge. <u>16 w</u>	Co. <u>Rush</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey Yes _____ No _____ Evaluation _____

Interval Tested <u>3222-3260</u>	Drill Pipe Size <u>4 1/2 FH</u>
Anchor Length <u>38</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3217</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3222</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>882</u>
Total Depth <u>3260</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>50</u> Filtrate <u>10.8</u>
Tool Open @ <u>2:06 AM</u>	Initial Blow <u>1/2" blow building to 6 1/2"</u>
Final Blow <u>1/4" blow building to 4"</u>	

Recovery — Total Feet <u>25</u>	Feet of Gas In Pipe <u>165</u>	Flush Tool? _____
Rec. <u>5</u> Feet Of <u>cl oil</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>10</u> Feet Of <u>SOCWM</u>	%gas <u>5</u> %oil <u>15</u> %water <u>80</u> %mud _____	
Rec. <u>60</u> Feet Of <u>SOCWM</u>	%gas <u>5</u> %oil <u>35</u> %water <u>60</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>101</u> °F	Gravity _____ °API @ _____ °F	Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery Chlorides _____ ppm System
(A) Initial Hydrostatic Mud <u>1583</u> PSI	AK1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>44</u> PSI	@ (depth) <u>3225</u>	w/Clock No. <u>22992</u>
(C) First Final Flow Pressure <u>52</u> PSI	AK1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>476</u> PSI	@ (depth) <u>3259</u>	w/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>67</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>67</u> PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>468</u> PSI	Initial Opening <u>45</u>	Test <u>600.00</u>
(H) Final Hydrostatic Mud <u>1545</u> PSI	Initial Shut-In <u>45</u>	Jars _____

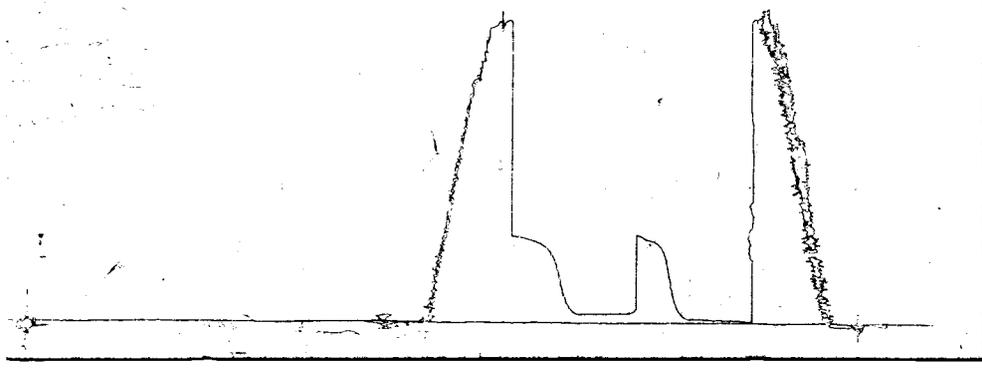
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS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

Final Flow <u>45</u>	Safety Joint _____
Final Shut-In <u>45</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By \_\_\_\_\_  
 Our Representative Paul Simpson

TOTAL PRICE \$ \_\_\_\_\_

Carmen Schmitt



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DIETZ #1 Test No. 2 Date 10/21/93  
Company CARMEN SCHMITT INC Zone LKC-"D-G"  
Address PO BOX 7 GREAT BEND KS 67530 Elevation 1955  
Co. Rep./Geo. STEVE PARKER Cont. SHIELDS DRLG CO INC Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 21 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3260-3348 Drill Pipe Size 4.5" FH  
Anchor Length 88 Wt. Pipe I.D. - 2.7 Ft. Run 820  
Top Packer Depth 3255 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3260 Mud Wt. 9.2 lb/Gal.  
Total Depth 3348 Viscosity 44 Filtrate 10.4

Tool Open @ 5:25 PM Initial Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 15 MINUTES

Final Blow 1/4" BLOW BUILDING TO 9"

Recovery - Total Feet 400 Flush Tool? NO

Rec. 45 Feet of GAS IN PIPE  
Rec. 160 Feet of SLTLY OIL CUT MUD-5%OIL/95%MUD  
Rec. 60 Feet of SLTLY OIL & WTR CUT MUD-5%OIL/15%WTR/80%MUD  
Rec. 180 Feet of MUDDY WATER WITH SPECKS  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 113 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.125 @ 55 °F Chlorides 80000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1632.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 91.1 PSI @ (depth) 3240 w / Clock No. 22992

(C) First Final Flow Pressure 165.5 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 877.7 PSI @ (depth) 3347 w / Clock No. 30401

(E) Second Initial Flow Pressure 196.6 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

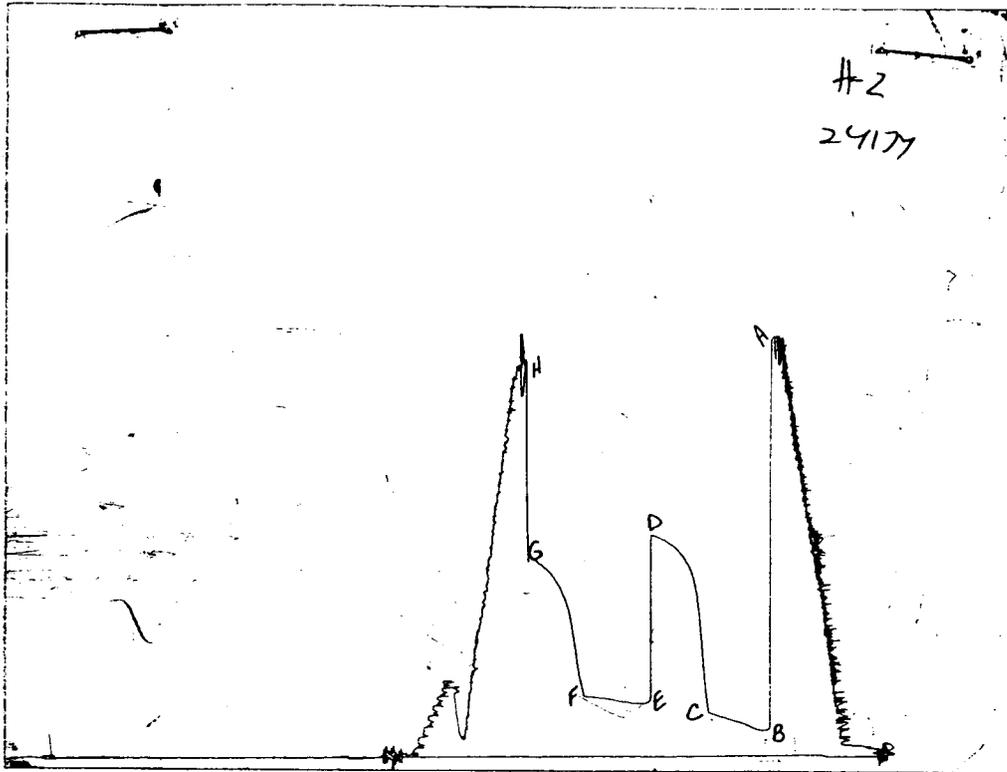
(F) Second Final Flow Pressure 226.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 791.1 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1588.8 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1634	1632.2
(B) FIRST INITIAL FLOW PRESSURE	89	91.1
(C) FIRST FINAL FLOW PRESSURE	164	165.5
(D) INITIAL CLOSED-IN PRESSURE	872	877.7
(E) SECOND INITIAL FLOW PRESSURE	194	196.6
(F) SECOND FINAL FLOW PRESSURE	225	226.6
(G) FINAL CLOSED-IN PRESSURE	789	791.1
(H) FINAL HYDROSTATIC MUD	1583	1588.8

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

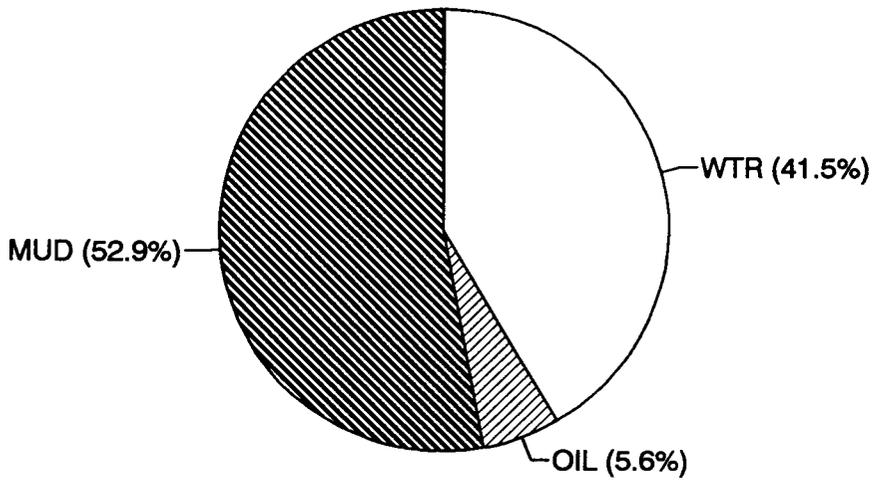
2

TICKET #

6252

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	160	0	0	5	8	0	0	95	152
2	60	0	0	5	15	15	9	80	48
3	180	0	0	0	0	90	162	10	18
4			0		0		0		0
5			0		0		0		0
TOTAL	400	0	0	5.75	23	42.75	171	54.5	218

		HRS OPEN	BBL/DAY
BBL OIL=	0.161	*	1.5
BBL WATER=	1.197	*	19.152
BBL MUD=	1.526		
BBL GAS=	0		



# TRILOBITE TESTING L.L.C.

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## Test Ticket

No 6252

Well Name & No. <u>Dietz #1</u>	Test No. <u>2</u>	Date <u>10-21-93</u>
Company <u>Carman Schmitt, Inc</u>	Zone Tested <u>2KC D-61</u>	
Address _____	Elevation <u>1955</u>	
Co. Rep./Geo. <u>Steve Packer</u>	cont. <u>Shields</u>	Est. Ft. of Pay _____
Location: Sec. <u>21</u>	Twp. <u>16S</u>	Rge. <u>16W</u> Co. <u>Push</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3260 - 3348</u>	Drill Pipe Size <u>4 1/2 SH</u>
Anchor Length <u>88</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3255</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3260</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>820</u>
Total Depth <u>3348</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>10.4</u>
Tool Open @ <u>5:25 PM</u>	Initial Blow <u>1" blow building to bottom of bucket in 15 minutes</u>
Final Blow <u>1/4" blow building to 9"</u>	

Recovery — Total Feet <u>400</u>	Feet of Gas In Pipe <u>45</u>	Flush Tool? _____
Rec. <u>160</u> Feet Of <u>SOGM</u>	%gas <u>5</u> %oil _____ %water <u>95</u> %mud _____	
Rec. <u>60</u> Feet Of <u>SO &amp; WCM</u>	%gas <u>5</u> %oil <u>15</u> %water <u>80</u> %mud _____	
Rec. <u>180</u> Feet Of <u>MW w/s pecks</u>	%gas _____ %oil _____ %water <u>90</u> %mud <u>10</u>	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>113</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>125</u> @ <u>55</u> °F	Chlorides <u>80,000</u> ppm	Recovery Chlorides <u>6,000</u> ppm	System _____
(A) Initial Hydrostatic Mud <u>1634</u>	PSI	AK1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>89</u>	PSI	@ (depth) <u>3240</u>	w/Clock No. <u>22992</u>
(C) First Final Flow Pressure <u>164</u>	PSI	AK1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure <u>872</u>	PSI	@ (depth) <u>3347</u>	w/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>194</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>225</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>789</u>	PSI	Initial Opening <u>45</u>	Test <u>600.00</u>
(H) Final Hydrostatic Mud <u>1583</u>	PSI	Initial Shut-In <u>45</u>	Jars _____

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Final Flow <u>45</u>	Safety Joint _____
Final Shut-In <u>45</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By \_\_\_\_\_  
Our Representative Paul Simpson

TOTAL PRICE \$ 600.00

Caemen Schmitt Inc

#2



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DIETZ #1 Test No. 3 Date 10/22/93  
Company CARMEN SCHMITT INC Zone LKC  
Address PO BOX 7 GREAT BEND KS 67530 Elevation 1955  
Co. Rep./Geo. STEVE PARKER Cont. SHIELDS DRLG CO INC Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 21 Twp. 16S Rge. 16W Co. RUSH State KS

Interval Tested 3374-3460 Drill Pipe Size 4.5" FH  
Anchor Length 86 Wt. Pipe I.D. - 2.7 Ft. Run 820  
Top Packer Depth 3369 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 3375 Mud Wt. 9.2 lb/Gal.  
Total Depth 3460 Viscosity 51 Filtrate 10.8

Tool Open @ 11:16 AM Initial Blow 1/2" BLOW BUILDING TO 1"

Final Blow VERY WEAK SURFACE BLOW - DIED IN 10 MINUTES

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 101 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 1722.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 45.5 PSI @ (depth) 3439 w / Clock No. 22992

(C) First Final Flow Pressure 51.1 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 378.8 PSI @ (depth) 3459 w / Clock No. 30401

(E) Second Initial Flow Pressure 52.2 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

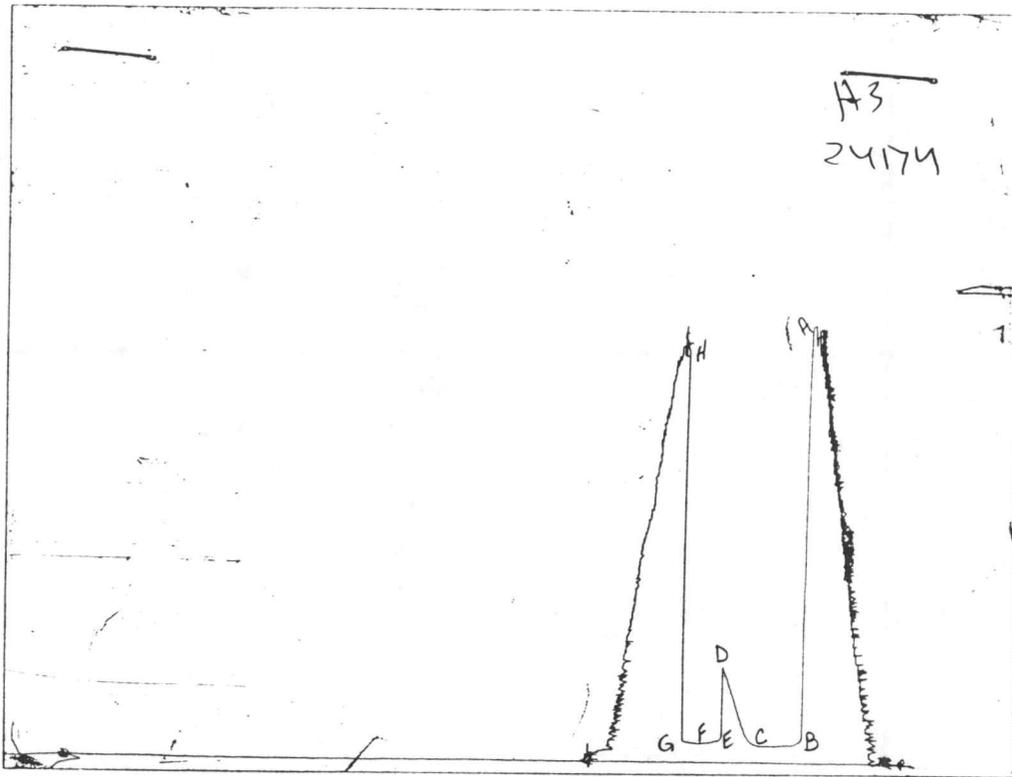
(F) Second Final Flow Pressure 52.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 76.6 PSI Initial Opening 30 Final Flow 15

(H) Final Hydrostatic Mud 1667.7 PSI Initial Shut-in 30 Final Shut-in 15

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1727	1722.2
(B) FIRST INITIAL FLOW PRESSURE	44	45.5
(C) FIRST FINAL FLOW PRESSURE	49	51.1
(D) INITIAL CLOSED-IN PRESSURE	377	378.8
(E) SECOND INITIAL FLOW PRESSURE	49	52.2
(F) SECOND FINAL FLOW PRESSURE	49	52.2
(G) FINAL CLOSED-IN PRESSURE	75	76.6
(H) FINAL HYDROSTATIC MUD	1666	1667.7