

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SWARNER #1-17 Test No. 1 Date 11/14/92
Company WHITE & ELLIS DRILLING Zone PAWNEE
Address P.O. BOX 48848 WICHITA KS 67201 Elevation 2182
Co. Rep./Geo. TOM FUNK Cont. WHITE & ELLIS #8 Est. Ft. of Pay _____
Location: Sec. 17 Twp. 31S Rge. 18W Co. COMANCHE State KS

Interval Tested 4983-5020 Drill Pipe Size 4.5" XH
Anchor Length 37 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4978 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4983 Mud Wt. 9 lb/Gal.
Total Depth 5020 Viscosity 47 Filtrate 11.2

Tool Open @ 3:25 AM Initial Blow WEAK-BUILDING TO 1"

Final Blow WEAK-1/2" STEADY BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE
Rec. 30 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2750.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 61.2 PSI @ (depth) 4987 w / Clock No. 27567

(C) First Final Flow Pressure 61.2 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 180.9 PSI @ (depth) 5016 w / Clock No. 25828

(E) Second Initial Flow Pressure 61.2 PSI AK1 Recorder No. _____ Range _____

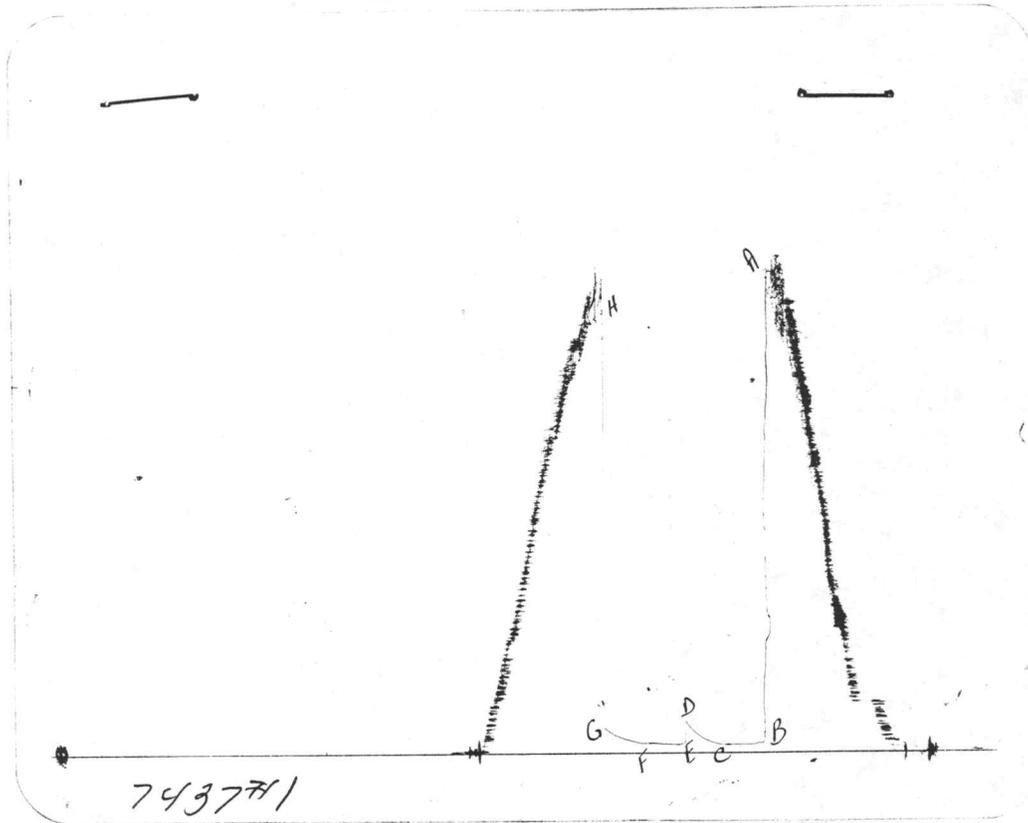
(F) Second Final Flow Pressure 61.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 150.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2588.9 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	2745	2750.6
(B) FIRST INITIAL FLOW PRESSURE	59	61.2
(C) FIRST FINAL FLOW PRESSURE	59	61.2
(D) INITIAL CLOSED-IN PRESSURE	177	180.9
(E) SECOND INITIAL FLOW PRESSURE	59	61.2
(F) SECOND FINAL FLOW PRESSURE	59	61.2
(G) FINAL CLOSED-IN PRESSURE	147	150.9
(H) FINAL HYDROSTATIC MUD	2583	2588.9

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Test Ticket

No 5564

Well Name & No.	<u>Swarner #1-17</u>	Test No.	<u>1</u>	Date	<u>11-14-92</u>										
Company	<u>White + Ellis Drlg.</u>	Zone Tested	<u>Pawnee</u>												
Address	<u>P.O. Box 48848, Wichita, Ks. 67201-8848</u>		Elevation	<u>2182 K.B.</u>											
CO. Rep./Geo.	<u>Tom Funk</u>	Cont.	<u>White + Ellis #8</u>	Est. Ft. of Pay											
Location: Sec.	<u>17</u>	Twp.	<u>31</u>	Rge.	<u>18</u>	Co.	<u>Comanche</u>	State	<u>Ks.</u>						
No. of Copies		Distribution Sheet		Yes		No		Turnkey		Yes		No		Evaluation	

Interval Tested	<u>4983 - 5020</u>	Drill Pipe Size	<u>4.5 X 14</u>			
Anchor Length	<u>37</u>	Top Choke — 1"		Bottom Choke — 3/4"		
Top Packer Depth	<u>4978</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"		
Bottom Packer Depth	<u>4983</u>	Wt. Pipe I.D. — 2.7 Ft. Run				
Total Depth	<u>5020</u>	Drill Collar — 2.25 Ft. Run				
Mud Wt.	<u>9</u>	lb/gal.	Viscosity	<u>47</u>	Filtrate	<u>11.2</u>
Tool Open @	<u>3:25 a.m.</u>	Initial Blow	<u>Weak - building to 1"</u>			

Final Blow Weak - 1/2" steady blow

Recovery — Total Feet	<u>30</u>	Feet of Gas in Pipe	<u>90</u>	Flush Tool?			
Rec.	<u>30</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 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7,000 ppm System

- (A) Initial Hydrostatic Mud 2.745 PSI Ak1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 59 PSI @ (depth) 4987 w/Clock No. 27567
- (C) First Final Flow Pressure 59 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 177 PSI @ (depth) 5016 w/Clock No. 25828
- (E) Second Initial Flow Pressure 59 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 59 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 147 PSI Initial Opening 30 Test 650 °0
- (H) Final Hydrostatic Mud 2583 PSI Initial Shut-In 30 Jars X 200 °0

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 30 Safety Joint X 50 °0
Final Shut-In 30 Straddle _____
Circ. Sub _____
Sampler _____

Approved By Thomas Lurb

Our Representative Dave Banerje

Extra Packer _____
Other _____
TOTAL PRICE \$ 900 °0

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name SWARNER #1-17 Test No. 2 Date 11/14/92
Company WHITE & ELLIS DRILLING Zone MISSISSIPPI
Address P.O. BOX 48848 WICHITA KS 67201 Elevation 2182
Co. Rep./Geo. TOM FUNK Cont. WHITE & ELLIS #8 Est. Ft. of Pay _____
Location: Sec. 17 Twp. 31S Rge. 18W Co. COMANCHE State KS

Interval Tested 5091-5116 Drill Pipe Size 4.5" XH
Anchor Length 25 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5086 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 5091 Mud Wt. 9 lb/Gal.
Total Depth 5116 Viscosity 52 Filtrate 13.6

Tool Open @ 10:25 PM ^{Initial} Blow STRONG-BOTTOM OF BUCKET IN 2 MINUTES

Final Blow STRONG-BOTTOM OF BUCKET IN 3 MINUTES

Recovery - Total Feet 256 Flush Tool? NO

Rec. 558 Feet of GAS IN PIPE
Rec. 70 Feet of GASSY MUD
Rec. 186 Feet of MUDDY WATER-90%WTR/10%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.52 @ 87 °F Chlorides 37000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2733.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 70.6 PSI @ (depth) 5095 w / Clock No. 27567

(C) First Final Flow Pressure 80.7 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1588.2 PSI @ (depth) 5112 w / Clock No. 25828

(E) Second Initial Flow Pressure 101.6 PSI AK1 Recorder No. _____ Range _____

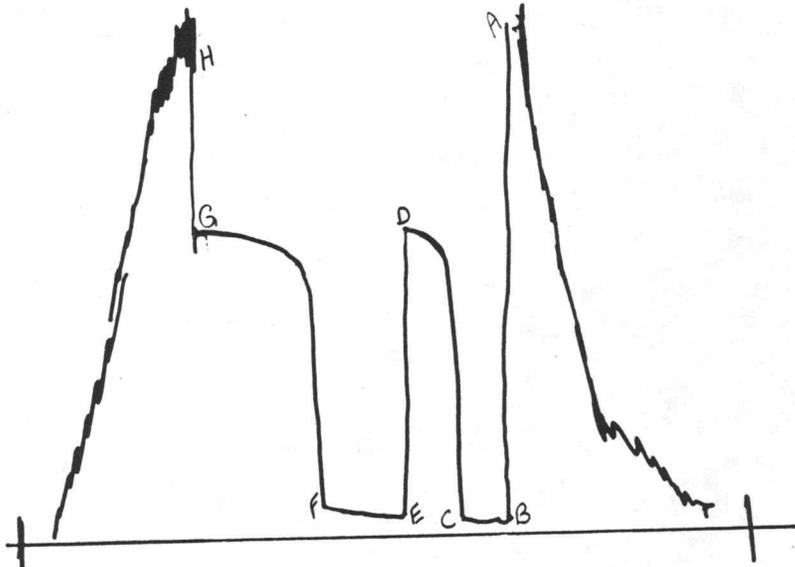
(F) Second Final Flow Pressure 151.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1588.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2704.9 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2725	2733.6
(B) FIRST INITIAL FLOW PRESSURE	68	70.6
(C) FIRST FINAL FLOW PRESSURE	78	80.7
(D) INITIAL CLOSED-IN PRESSURE	1586	1588.2
(E) SECOND INITIAL FLOW PRESSURE	98	101.6
(F) SECOND FINAL FLOW PRESSURE	147	151.9
(G) FINAL CLOSED-IN PRESSURE	1586	1588.2
(H) FINAL HYDROSTATIC MUD	2695	2704.9

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Test Ticket

No 5565

Well Name & No. <u>Swarner #1-17</u>	Test No. <u>2</u>	Date <u>11-14-92</u>
Company <u>White + Ellis Drlg.</u>	Zone Tested <u>Miss</u>	
Address _____	Elevation <u>2182 K.B</u>	
Co. Rep./Geo. <u>Tom Funk</u>	Cont. <u>White + Ellis 8</u>	Est. Ft. of Pay _____
Location: Sec. <u>17</u> Twp. <u>31</u> Rge. <u>18</u>	Co. <u>Comanche</u> State <u>Ks.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>5091 - 5116</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>25</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5086</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>5091</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5116</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9</u> lb/gal.	Viscosity <u>52</u> Filtrate <u>13.6</u>
Tool Open @ <u>10:25 p.m.</u> Initial Blow <u>Strong - B.O.B. in 2 min.</u>	
Final Blow <u>Strong - B.O.B. in 3 min.</u>	

Recovery — Total Feet _____	Feet of Gas in Pipe <u>558</u>	Flush Tool? _____
Rec. <u>70</u> Feet Of <u>Gsy M</u>	<u>20</u> %gas	%Oil _____ %water <u>80</u> %mud _____
Rec. <u>186</u> Feet Of <u>ndy WTA.</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 _____
Rec. _____ Feet Of _____	%gas _____	%Oil _____ %water _____ %mud _____

BHT <u>122</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>.52</u> @ <u>87</u> °F	Chlorides <u>37,000</u> ppm	Recovery Chlorides <u>8,000</u> ppm	System _____
(A) Initial Hydrostatic Mud <u>2725</u> PSI	AK1 Recorder No. <u>13754</u>	Range <u>4000</u>	
(B) First Initial Flow Pressure <u>68</u> PSI	@ (depth) <u>5095</u>	w/Clock No. <u>27567</u>	
(C) First Final Flow Pressure <u>78</u> PSI	AK1 Recorder No. <u>7437</u>	Range <u>4200</u>	
(D) Initial Shut-In Pressure <u>1586</u> PSI	@ (depth) <u>5112</u>	w/Clock No. <u>25828</u>	
(E) Second Initial Flow Pressure <u>98</u> PSI	AK1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>147</u> PSI	@ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>1586</u> PSI	Initial Opening <u>30</u>	Test _____	
(H) Final Hydrostatic Mud <u>2695</u> PSI	Initial Shut-In <u>45</u>	Jars <u>X</u>	

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Final Flow <u>60</u>	Safety Joint <u>X</u>
Final Shut-In <u>90</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By Thomas Funk
Our Representative Dave Banoff
Printcraft Printers - Hays, KS

TOTAL PRICE \$ 900.00