



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SHIELDS TOWNSITE (#1 YATES) Test No. 1 Date 10/4/94
 Company JOHN O FARMER INC Zone LKC 'J-K-L'
 Address P.O. BOX 352 RUSSELL KS 67665 Elevation 2751
 Co. Rep./Geo. JOHN O. FARMER IV Cont. SHIELDS Est. Ft. of Pay 14
 Location: Sec. 32 Twp. 16S Rge. 28W Co. LANE State KS

Interval Tested	<u>4215-4325</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>110</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>820</u>
Top Packer Depth	<u>4210</u>	Drill Collar - 2.25 Ft. Run	<u>9.3</u>
Bottom Packer Depth	<u>4215</u>	Mud Wt.	<u>48</u> lb/Gal.
Total Depth	<u>4325</u>	Viscosity	<u>48</u> Filtrate <u>9.6</u>

Tool Open @ 11:16 P.M. Initial Blow 1 1/2" BLOW BUILDING TO BOTTOM OF BUCKET IN 90 SEC

Final Blow 3" BLOW BUILDING TO BOTTOM OF BUCKET IN 2 1/2 MIN

Recovery - Total Feet 2190 Flush Tool? NO

Rec. 600 Feet of OIL SPECKED MUDDY WATER 80%WATER20%MUD
 Rec. 1590 Feet of SALT WATER
 Rec. _____ Feet of (REVERSED INTO PIT)
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.13 @ _____ °F Chlorides 62000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2184.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 212.7 PSI @ (depth) 4221 w / Clock No. 23839

(C) First Final Flow Pressure 752.0 PSI AK1 Recorder No. 10994 Range 4200

(D) Initial Shut-in Pressure 1103.3 PSI @ (depth) 4320 w / Clock No. 30416

(E) Second Initial Flow Pressure 817.6 PSI AK1 Recorder No. _____ Range _____

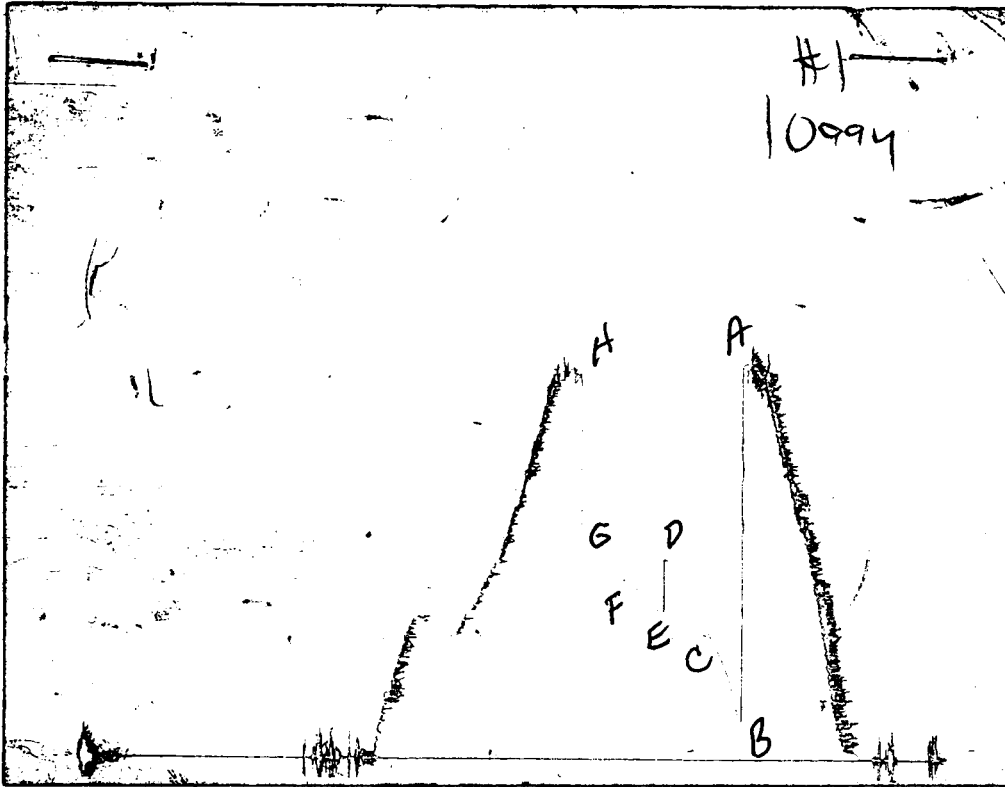
(F) Second Final Flow Pressure 993.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1102.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2146.5 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart 10994

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2184	2184.5
(B) FIRST INITIAL FLOW PRESSURE	202	212.7
(C) FIRST FINAL FLOW PRESSURE	744	752
(D) INITIAL CLOSED-IN PRESSURE	1103	1103.3
(E) SECOND INITIAL FLOW PRESSURE	807	817.6
(F) SECOND FINAL FLOW PRESSURE	987	993.5
(G) FINAL CLOSED-IN PRESSURE	1093	1102.3
(H) FINAL HYDROSTATIC MUD	2154	2146.5

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Drill-Stem Test Data

Well Name SHIELDS TOWNSITE (#1 YATES) Test No. 2 Date 10/5/94
Company JOHN O FARMER INC Zone MARMATON
Address P.O. BOX 352 RUSSELL KS 67665 Elevation _____
Co. Rep./Geo. JOHN O. FARMER IV Cont. SHIELDS Est. Ft. of Pay _____
Location: Sec. 32 Twp. 16S Rge. 28W Co. LANE State KS

Interval Tested 4323-4412
Anchor Length 89
Top Packer Depth 4318
Bottom Packer Depth 4323
Total Depth 4412

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run 820
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.3 lb/Gal.
Viscosity 48 Filtrate 9.8

Tool Open @ 9:43 P.M. Initial Blow WEAK 3/4" BLOW

Final Blow SURFACE BLOW-DIED IN 14 MIN

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2234.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 68.0 PSI @ (depth) 4347 w / Clock No. 23839

(C) First Final Flow Pressure 68.0 PSI AK1 Recorder No. 10994 Range 4200

(D) Initial Shut-in Pressure 82.9 PSI @ (depth) 4409 w / Clock No. 14074

(E) Second Initial Flow Pressure 70.2 PSI AK1 Recorder No. _____ Range _____

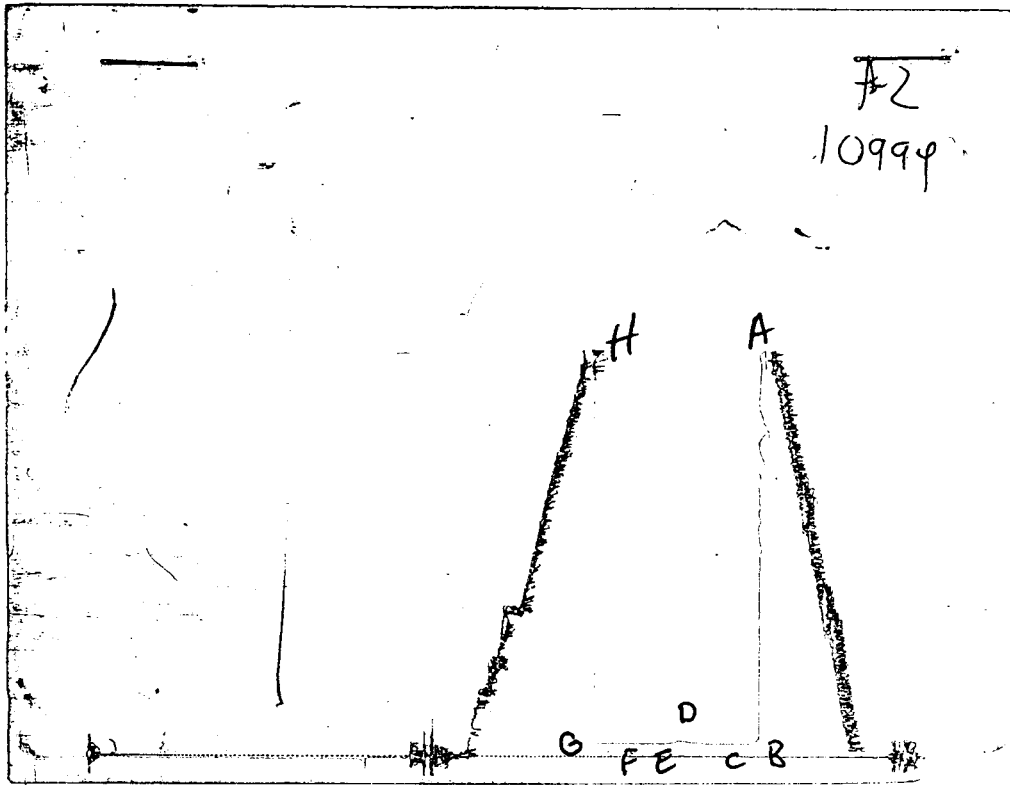
(F) Second Final Flow Pressure 70.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 75.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2219.4 PSI Initial Shut-in 30 Final Shut-in 30

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CHART PAGE



This is an actual photograph of recorder chart 10994

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2247	2234.1
(B) FIRST INITIAL FLOW PRESSURE	53	68
(C) FIRST FINAL FLOW PRESSURE	53	68
(D) INITIAL CLOSED-IN PRESSURE	74	82.9
(E) SECOND INITIAL FLOW PRESSURE	53	70.2
(F) SECOND FINAL FLOW PRESSURE	53	70.2
(G) FINAL CLOSED-IN PRESSURE	64	75.5
(H) FINAL HYDROSTATIC MUD	2226	2219.4