

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WHIPPLE #1-14 Test No. 1 Date 9/4/92  
Company RANKEN ENERGY CORPORATION Zone MARMATON  
Address 2325 S.W. 15th ST EDMOND OK 73013-2024 Elevation 2639  
Co. Rep./Geo. TOM LARSON Cont. EMPHASIS RIG #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 14 Twp. 19S Rge. 26W Co. NESS State KS

Interval Tested 4416-4438 Drill Pipe Size 4.5" XH  
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4411-4416 Drill Collar - 2.25 Ft. Run 60  
Bottom Packer Depth 4438 Mud Wt. 10.2 lb/Gal.  
Total Depth 4630 Viscosity 45 Filtrate N/A

Tool Open @ \_\_\_\_\_ Initial Blow AT 10:45 AM HIT BRIDGES GOING IN - PULLED BACK  
OUT TO RECONDITION HOLE  
Final Blow \_\_\_\_\_

Recovery - Total Feet \_\_\_\_\_ Flush Tool? NO

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 92 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 740.6 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 4419 w / Clock No. 51058

(C) First Final Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure \_\_\_\_\_ PSI @ (depth) 4423 w / Clock No. 27566

(E) Second Initial Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 13615 Range 4575

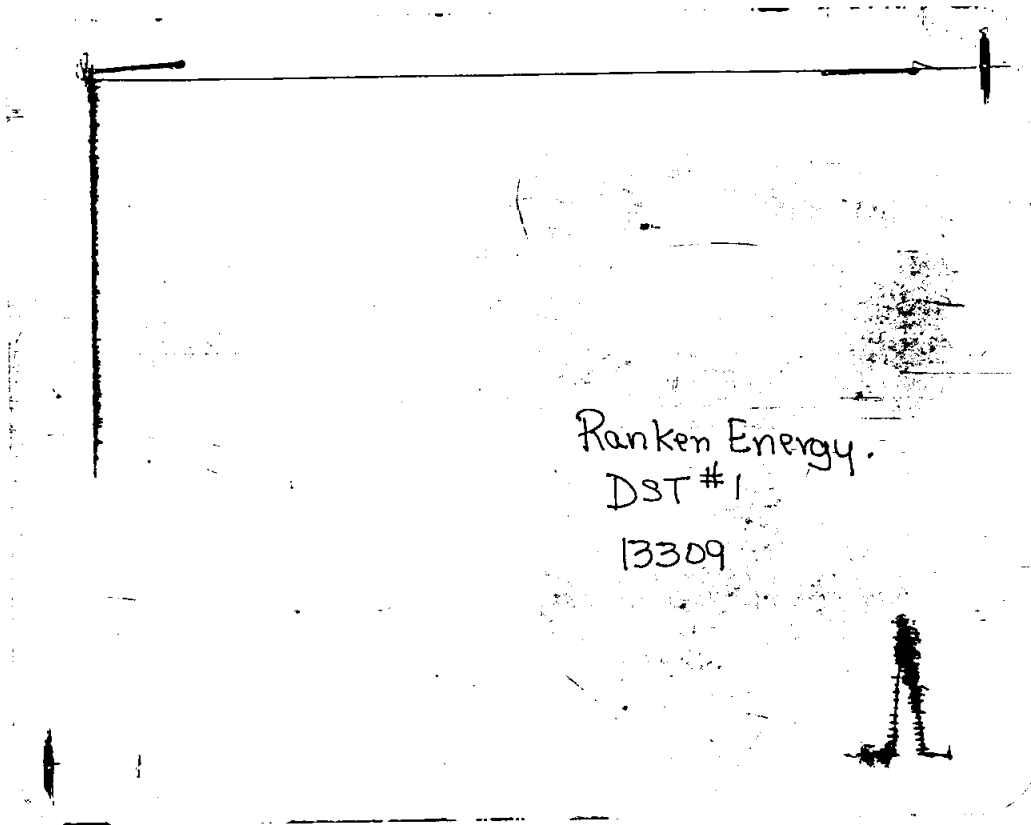
(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) 4625 w / Clock No. 25810

(G) Final Shut-in Pressure \_\_\_\_\_ PSI Initial Opening \_\_\_\_\_ Final Flow \_\_\_\_\_

(H) Final Hydrostatic Mud 740.6 PSI Initial Shut-in \_\_\_\_\_ Final Shut-in \_\_\_\_\_

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	734	740.6
(B) FIRST INITIAL FLOW PRESSURE		
(C) FIRST FINAL FLOW PRESSURE		
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	734	740.6

# TRILOBITE TESTING L.L.C.

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## Test Ticket

№ 5197

Well Name & No. Whipple #1-14 Test No. 1 Date 9-4-92  
Company Ranken Energy Corporation Zone Tested Marmaton  
Address 2325 S.W. 15<sup>th</sup> Edmond, OK. 73013-2027 Elevation 2639 (KB)  
Co. Rep./Geo. Tom Larson Cont. Emphasis #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 14 Twp. 19<sup>s</sup> Rge. 26<sup>w</sup> Co. Ness State KS.  
No. of Copies Normal Distribution Sheet Yes X No Turnkey Yes \_\_\_\_\_ No NO Evaluation

Interval Tested 4416 - 4438 Drill Pipe Size 4 1/2" XH  
Anchor Length 22' Top Choke — 1" Bottom Choke — 3/4"  
Top Packer Depth 4411 - 4416 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Bottom Packer Depth 4438 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth (RTD) 4630 Drill Collar — 2.25 Ft. Run 60'  
Mud Wt. 10.2 lb/gal. Viscosity 45 Filtrate \_\_\_\_\_  
Tool Open @ \_\_\_\_\_ Initial Blow 10:45 am Hit bridges going in - Pulled back out to recondition hole.  
Final Blow \_\_\_\_\_

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?				
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
Rec. _____ Feet Of _____			%gas	%oil	%water	%mud

BHT 92° °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW .33 @ 69° °F Chlorides 21,000 ppm Recovery Chlorides \_\_\_\_\_ ppm System  
(A) Initial Hydrostatic Mud 734 PSI AK1 Recorder No. 13309 Range 4700  
(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 4419 w/Clock No. 21058  
(C) First Final Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 13339 Range 4025  
(D) Initial Shut-In Pressure \_\_\_\_\_ PSI @ (depth) 4423 w/Clock No. 27566  
(E) Second Initial Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 13615 Range 4575  
(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) 4625 w/Clock No. 25810  
(G) Final Shut-In Pressure \_\_\_\_\_ PSI Initial Opening \_\_\_\_\_ Test n/c  
(H) Final Hydrostatic Mud 734 PSI Initial Shut-In \_\_\_\_\_ Jars X / n/c

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Approved By T.C. Larson  
Our Representative Rod Steinbrink  
Final Flow \_\_\_\_\_ Safety Joint \_\_\_\_\_  
Final Shut-In \_\_\_\_\_ Straddle X n/c  
Circ. Sub X N/c  
Sampler \_\_\_\_\_  
Extra Packer X n/c  
Other \_\_\_\_\_

# TRILOBITE TESTING, L.L.C.

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## Drill-Stem Test Data

Well Name WHIPPLE #1-14 Test No. 2 Date 9/5/92  
Company RANKEN ENERGY CORPORATION Zone MARMATON  
Address 2325 S.W. 15th ST EDMOND OK 73013-2024 Elevation 2639  
Co. Rep./Geo. TOM LARSON Cont. EMPHASIS RIG #7 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 14 Twp. 19S Rge. 26W Co. NESS State KS

Interval Tested 4416-4438 Drill Pipe Size 4.5" XH  
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4411-4416 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 4438 Mud Wt. 9.1 lb/Gal.  
Total Depth 4630 Viscosity 41 Filtrate 10.2

Tool Open @ 1:23 AM Initial Blow SURFACE BLOW SLOWLY BUILT TO 3"  
ISI:BLED OFF BLOW-NO RETURN  
Final Blow VERY WEAK SURFACE BLOW SLOWLY BUILT TO 3"  
FSI:BLED OFF BLOW-NO RETURN

Recovery - Total Feet 125 Flush Tool? NO

Rec. 125 Feet of MUDDY WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 118 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.33 @ 69 °F Chlorides 21000 ppm Recovery Chlorides 28000 ppm System

(A) Initial Hydrostatic Mud 2235.6 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 35.4 PSI @ (depth) 4419 w / Clock No. 21058

(C) First Final Flow Pressure 35.4 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1136.9 PSI @ (depth) 4423 w / Clock No. 27566

(E) Second Initial Flow Pressure 45.6 PSI AK1 Recorder No. 13615 Range 4575

(F) Second Final Flow Pressure 57.8 PSI @ (depth) 4625 w / Clock No. 25810

(G) Final Shut-in Pressure 1032.4 PSI Initial Opening 30 Final Flow 120

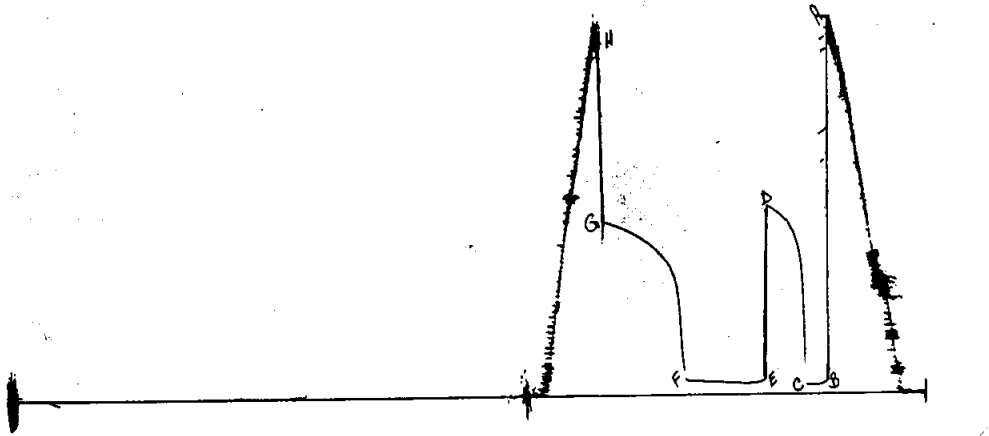
(H) Final Hydrostatic Mud 2210.4 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE

DST #2

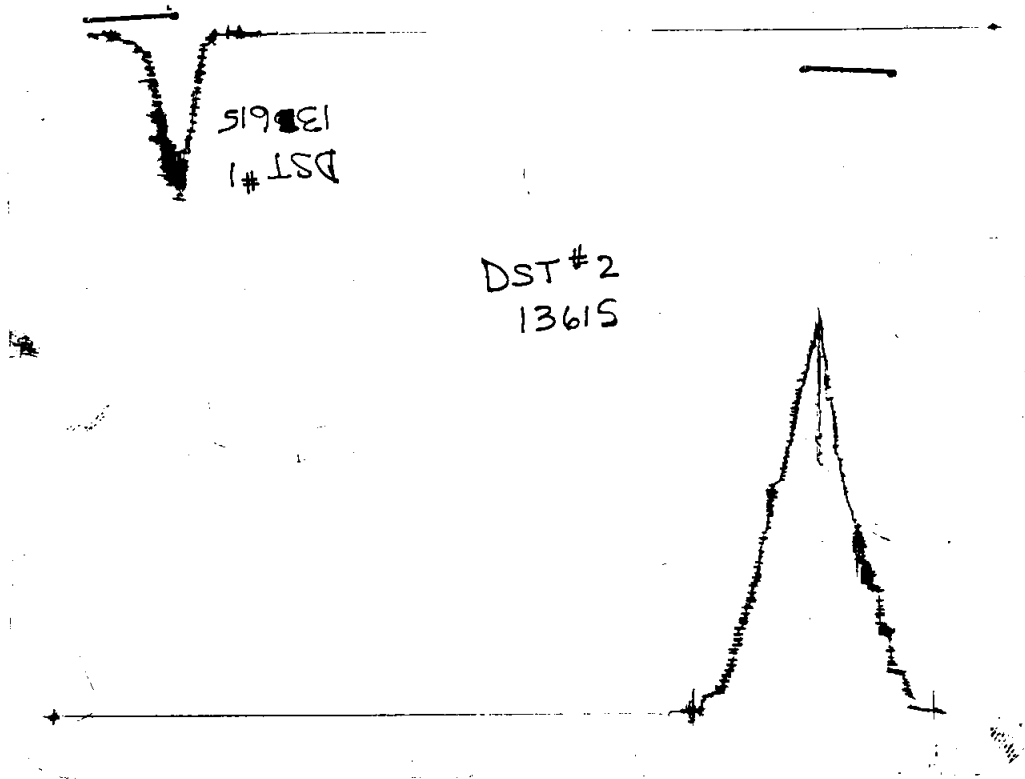
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2233	2235.6
(B) FIRST INITIAL FLOW PRESSURE	31	35.4
(C) FIRST FINAL FLOW PRESSURE	31	35.4
(D) INITIAL CLOSED-IN PRESSURE	1130	1136.9
(E) SECOND INITIAL FLOW PRESSURE	41	45.6
(F) SECOND FINAL FLOW PRESSURE	52	57.8
(G) FINAL CLOSED-IN PRESSURE	1030	1032.4
(H) FINAL HYDROSTATIC MUD	2203	2210.4

CHART PAGE



This is an actual photograph of recorder chart

FIELD  
READING

OFFICE  
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

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## Test Ticket

No 5198

Well Name & No. Whipple #1-14 Test No. 2 Date 9-5-92  
 Company Ranken Energy Corporation Zone Tested Marmaton  
 Address 2325 S.W. 15<sup>th</sup> Edmond, OK. 73103-2027 Elevation 2639 (KB)  
 Co. Rep./Geo. Tom Larson Cont. Emphasis #7 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 14 Twp. 19<sup>S</sup> Rge. 26<sup>W</sup> Co. Ness State KS  
 No. of Copies Normal Distribution Sheet Yes X No Turnkey Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4416 - 4438 Drill Pipe Size 4 1/2" XH  
 Anchor Length 22' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 1/4" \_\_\_\_\_  
 Top Packer Depth 4411 - 4416 Hole Size — 7 7/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 4438 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth (RTD) 4630 Drill Collar — 2.25 Ft. Run 30'  
 Mud Wt. 9.1 lb/gal. Viscosity 41 Filtrate 10.2  
 Tool Open @ 1:23 am. Initial Blow Surface blowly slowly built to 3".  
ISI: Bled off blow - No return.  
 Final Blow Very weak surface blow slowly built to 3".  
FSI: Bled off blow - No return.

Recovery — Total Feet 125' Feet of Gas In Pipe \_\_\_\_\_ Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>125'</u>	Feet Of <u>Muddy Water</u>				
Rec. _____	Feet Of _____				
Rec. _____	Feet Of _____				
Rec. _____	Feet Of _____				

BHT 118° °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW .33 @ 69° °F Chlorides 21,000 ppm Recovery Chlorides 28,000 ppm System

(A) Initial Hydrostatic Mud 2233 PSI AK1 Recorder No. 13309 Range 4700  
 (B) First Initial Flow Pressure 31 PSI @ (depth) 4419 w/Clock No. 28058  
 (C) First Final Flow Pressure 31 PSI AK1 Recorder No. 13339 Range 4025  
 (D) Initial Shut-In Pressure 1130 PSI @ (depth) 4423 w/Clock No. 27566  
 (E) Second Initial Flow Pressure 41 PSI AK1 Recorder No. 13615 Range 4575  
 (F) Second Final Flow Pressure 52 PSI @ (depth) 4625 w/Clock No. 25810  
 (G) Final Shut-In Pressure 1030 PSI Initial Opening 30 Test 550.00  
 (H) Final Hydrostatic Mud 2203 PSI Initial Shut-In 60 Jars X 200.00

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Final Flow 120 Safety Joint \_\_\_\_\_  
 Final Shut-In 120 Straddle X 250.00  
 Circ. Sub X N/C  
 Sampler \_\_\_\_\_

Approved By T.C. Larson  
 Our Representative Rbd Steinbrink

Extra Packer X 150.00

Other \_\_\_\_\_

TOTAL PRICE \$ 1150.00