

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WALTER #2-15 Test No. 1 Date 12/2/92  
Company RANKEN ENERGY CORPORATION Zone MISS  
Address 2325 S.W. 15th ST EDMOND OK 73013-2024 Elevation 2570  
Co. Rep./Geo. DOUG BELLIS Cont. EMPHASIS RIG #7 Est. Ft. of Pay 4  
Location: Sec. 15 Twp. 18S Rge. 26W Co. NESS State KS

Interval Tested 4517-4545 Drill Pipe Size 4.5" XH  
Anchor Length 28 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4512 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4517 Mud Wt. 9.1 lb/Gal.  
Total Depth 4545 Viscosity 43 Filtrate 9.2

Tool Open @ 9:00 AM Initial Blow WEAK SURFACE BLOW BUILT TO 2"

Final Blow 1/4" BLOW GRADUALLY BUILT TO 1"

Recovery - Total Feet 35 Flush Tool? NO

Rec. 35 Feet of OIL CUT MUD-40% OIL / 60% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 126 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2184.6 PSI AK1 Recorder No. 13339 Range 4025

(B) First Initial Flow Pressure 60.3 PSI @ (depth) 4535 w / Clock No. 27566

(C) First Final Flow Pressure 60.3 PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-in Pressure 614.7 PSI @ (depth) 4540 w / Clock No. 25810

(E) Second Initial Flow Pressure 80.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

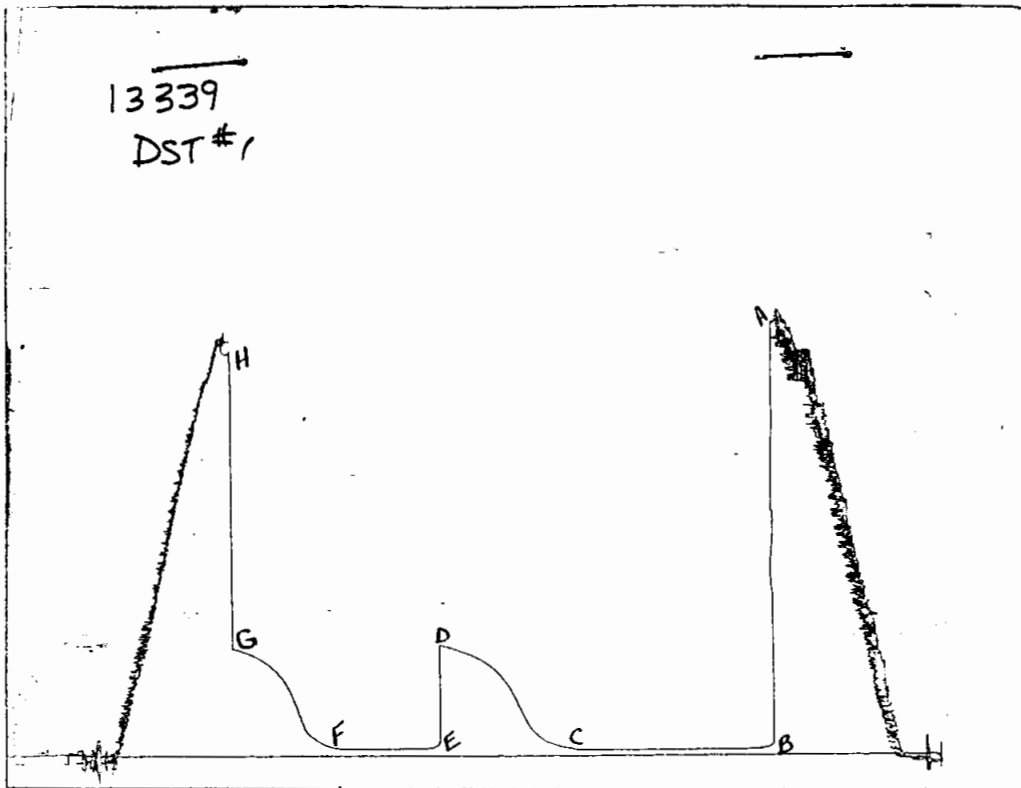
(F) Second Final Flow Pressure 80.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 598.7 PSI Initial Opening 120 Final Flow 60

(H) Final Hydrostatic Mud 2125.6 PSI Initial Shut-in 120 Final Shut-in 90

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2173	2184.6
(B) FIRST INITIAL FLOW PRESSURE	52	60.3
(C) FIRST FINAL FLOW PRESSURE	52	60.3
(D) INITIAL CLOSED-IN PRESSURE	609	614.7
(E) SECOND INITIAL FLOW PRESSURE	72	80.9
(F) SECOND FINAL FLOW PRESSURE	72	80.9
(G) FINAL CLOSED-IN PRESSURE	589	598.7
(H) FINAL HYDROSTATIC MUD	2123	2125.6

# TRILOBITE TESTING L.L.C.

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## Test Ticket

No 5639

Well Name & No.	Walter #2-15	Test No.	1	Date	12-2-92				
Company	Ranken Energy Corporation	Zone Tested	Mississippian						
Address	2325 S.W. 15 <sup>th</sup> St. Edmond, OK. 73013-2027	Elevation	2570 (G.L.)						
Co. Rep./Geo.	Doug Bellis	cont.	Emphasis #7	Est. Ft. of Pay	4'				
Location: Sec.	15	Twp.	18 S	Rge.	26 W	Co.	Ness	State	KS
No. of Copies	Normal	Distribution Sheet	Yes <input checked="" type="checkbox"/>	No	Turnkey	Yes <input checked="" type="checkbox"/>	No	Evaluation	

Interval Tested	4517 - 4545	Drill Pipe Size	4 1/2" XH	
Anchor Length	28'	Top Choke - 1"	Bottom Choke - 3/4"	
Top Packer Depth	4512	Hole Size - 7 7/8"	Rubber Size - 6 3/4"	
Bottom Packer Depth	4517	Wt. Pipe I.D. - 2.7 Ft. Run	---	
Total Depth	4545	Drill Collar - 2.25 Ft. Run	---	
Mud Wt.	9.1	lb/gal.	Viscosity 43	Filtrate 9.2
Tool Open @	9:00 am	Initial Blow	Weak surface blow built to 2"	

Final Blow 1/4" blow gradually built to 1".

Recovery - Total Feet 35' Feet of Gas in Pipe Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. 35'	Feet Of OCM	---	%gas 40	%oil ---	%water 60 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 126° °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 6,000 ppm System

- (A) Initial Hydrostatic Mud 2173 PSI Ak1 Recorder No. 13339 Range 4025
- (B) First Initial Flow Pressure 52 PSI @ (depth) 4535 w/Clock No. 27566
- (C) First Final Flow Pressure 52 PSI AK1 Recorder No. 13309 Range 4700
- (D) Initial Shut-In Pressure 609 PSI @ (depth) 4540 w/Clock No. 25810
- (E) Second Initial Flow Pressure 72 PSI AK1 Recorder No. --- Range ---
- (F) Second Final Flow Pressure 72 PSI @ (depth) --- w/Clock No. ---
- (G) Final Shut-In Pressure 589 PSI Initial Opening 120 Test 60000
- (H) Final Hydrostatic Mud 2123 PSI Initial Shut-In 120 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 60 Safety Joint  
Final Shut-In 90 Straddle  
Circ. Sub  N/C  
Sampler

Approved By Doug Bellis

Our Representative Rod Steinbrink

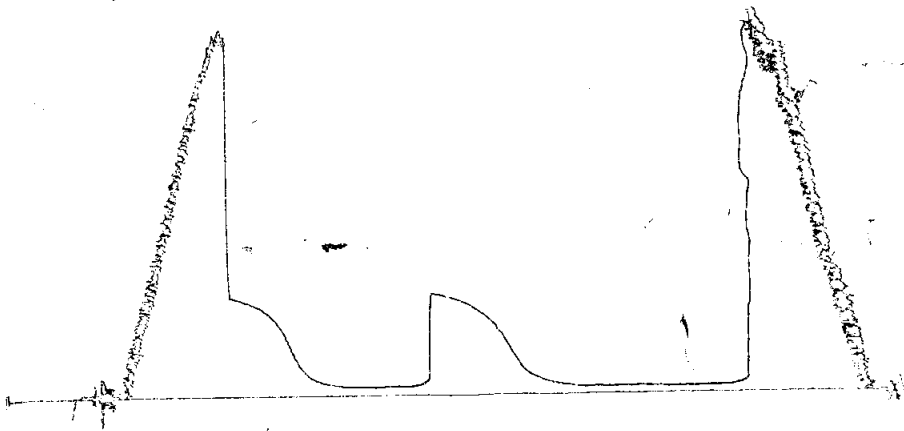
Extra Packer

Other

TOTAL PRICE \$ 600.00

DST#1

13309



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WALTER #2-15 Test No. 2 Date 12/3/92  
Company RANKEN ENERGY CORPORATION Zone MISS  
Address 2325 S.W. 15th ST EDMOND OK 73013-2024 Elevation 2570  
Co. Rep./Geo. DOUG BELLIS Cont. EMPHASIS RIG #7 Est. Ft. of Pay 8  
Location: Sec. 15 Twp. 18S Rge. 26W Co. NESS State KS

Interval Tested 4539-4549 Drill Pipe Size 4.5" XH  
Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4534 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4539 Mud Wt. 9.2 lb/Gal.  
Total Depth 4549 Viscosity 41 Filtrate \_\_\_\_\_

Tool Open @ 5:30 AM Initial Blow 1/4" BLOW DECREASED TO SURFACE

Final Blow NO RETURN/FLUSHED TOOL/GOOD SURGE-NO HELP  
TRIPPED OUT HOLE - COMPANY ORDERS / MISRUN

Recovery - Total Feet \_\_\_\_\_ Flush Tool? YES

Rec. \_\_\_\_\_ Feet of OIL SPOTTED MUD IN TOOL  
Rec. \_\_\_\_\_ Feet of BUMPER RUBBER FROM TOP RECORDER/  
Rec. \_\_\_\_\_ Feet of JAMMED IN BOTTOM OF PACKER MANDRELS PLUGGING IT OFF  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

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

(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 4541 w/ Clock No. 25810

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

(D) Initial Shut-in Pressure \_\_\_\_\_ PSI @ (depth) 4544 w/ Clock No. 27566

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

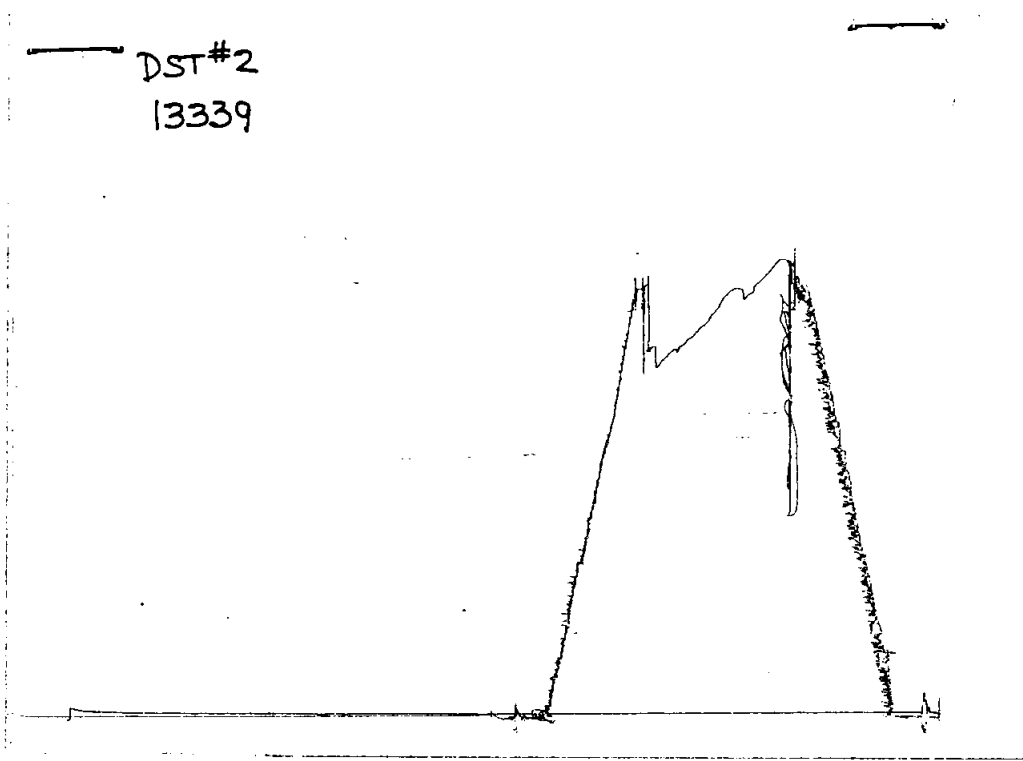
(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) \_\_\_\_\_ w/ Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure \_\_\_\_\_ PSI Initial Opening 30 Final Flow 5

(H) Final Hydrostatic Mud \_\_\_\_\_ PSI Initial Shut-in 60 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
- (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

# Test Ticket

№ 5640

Well Name & No.	Walter #2-15	Test No.	2	Date	12-3-92
Company	Ranken Energy Corporation	Zone Tested	Mississippian		
Address	2325 S.W. 15 <sup>th</sup> St. Edmond, OK 73013-2027	Elevation	2570 (GL)		
Co. Rep./Geo.	Tom Larson/Doug Bellis	cont.	Emphasis #7	Est. Ft. of Pay	8'
Location: Sec.	15	Twp.	18 S	Rge.	26 W
Co.	Ness	State	KS.		
No. of Copies	Normal	Distribution Sheet	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Evaluation			

Interval Tested	4539 - 4549	Drill Pipe Size	4 1/2" XH
Anchor Length	10'	Top Choke - 1"	Bottom Choke - 3/4"
Top Packer Depth	4534	Hole Size - 7 7/8"	Rubber Size - 6 3/4"
Bottom Packer Depth	4539	Wt. Pipe I.D. - 2.7 Ft. Run	---
Total Depth	4549	Drill Collar - 2.25 Ft. Run	---
Mud Wt.	9.2	lb/gal.	Viscosity 41
Tool Open @	5:30 am	Initial Blow	1/4" blow decreased to surface.

Final Blow No return - flushed tool / good surge - no help.  
T.O.H. - company orders.

Recovery - Total Feet	---	Feet of Gas in Pipe	---	Flush Tool?	YES	
Rec.	Feet Of	Dil Spotted Mud in Tool	%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 114° °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud	PSI	AK1 Recorder No.	13309	Range	4700
(B) First Initial Flow Pressure	PSI	@ (depth)	4534	w/Clock No.	25810
(C) First Final Flow Pressure	PSI	AK1 Recorder No.	13339	Range	4025
(D) Initial Shut-In Pressure	PSI	@ (depth)	4544	w/Clock No.	27566
(E) Second Initial Flow Pressure	PSI	AK1 Recorder No.	---	Range	---
(F) Second Final Flow Pressure	PSI	@ (depth)	---	w/Clock No.	---
(G) Final Shut-In Pressure	PSI	Initial Opening	30	Test	MISW 400
(H) Final Hydrostatic Mud	PSI	Initial Shut-In	60	Jars	---

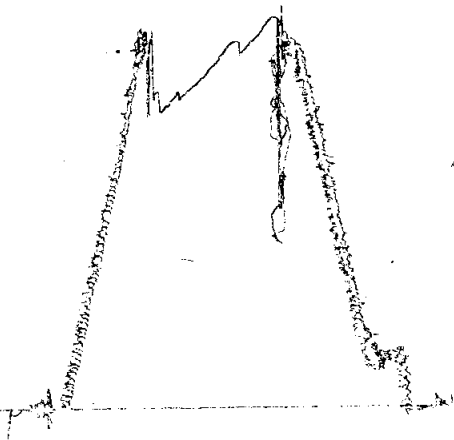
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS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

Final Flow	5	Safety Joint	---
Final Shut-In	---	Straddle	---
Circ. Sub	X	N/C	---
Sampler	---	Extra Packer	---
Other	---	TOTAL PRICE \$	400

Approved By Doug Bellis  
 Our Representative Rod Steinbrink

DST#2

13309



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WALTER #2-15 Test No. 3 Date 12/3/92  
Company RANKEN ENERGY CORPORATION Zone MISS  
Address 2325 S.W. 15th ST EDMOND OK 73013-2024 Elevation 2570  
Co. Rep./Geo. DOUG BELLIS Cont. EMPHASIS RIG #7 Est. Ft. of Pay 8  
Location: Sec. 15 Twp. 18S Rge. 26W Co. NESS State KS

Interval Tested 4539-4549 Drill Pipe Size 4.5" XH  
Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4534 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4539 Mud Wt. 9.2 lb/Gal.  
Total Depth 4549 Viscosity 41 Filtrate \_\_\_\_\_

Tool Open @ 10:15 AM <sup>Initial</sup> Blow WEAK 1/4" BLOW DIED IN 23 MINUTES

Final Blow NO BLOW - FLUSHED TOOL - NO HELP  
(ANCHOR PLUGGED OFF) / MISRUN

Recovery - Total Feet 5 Flush Tool? YES

Rec. 5 Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2260.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 4541 w / Clock No. 25810

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

(D) Initial Shut-in Pressure \_\_\_\_\_ PSI @ (depth) 4544 w / Clock No. 27566

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

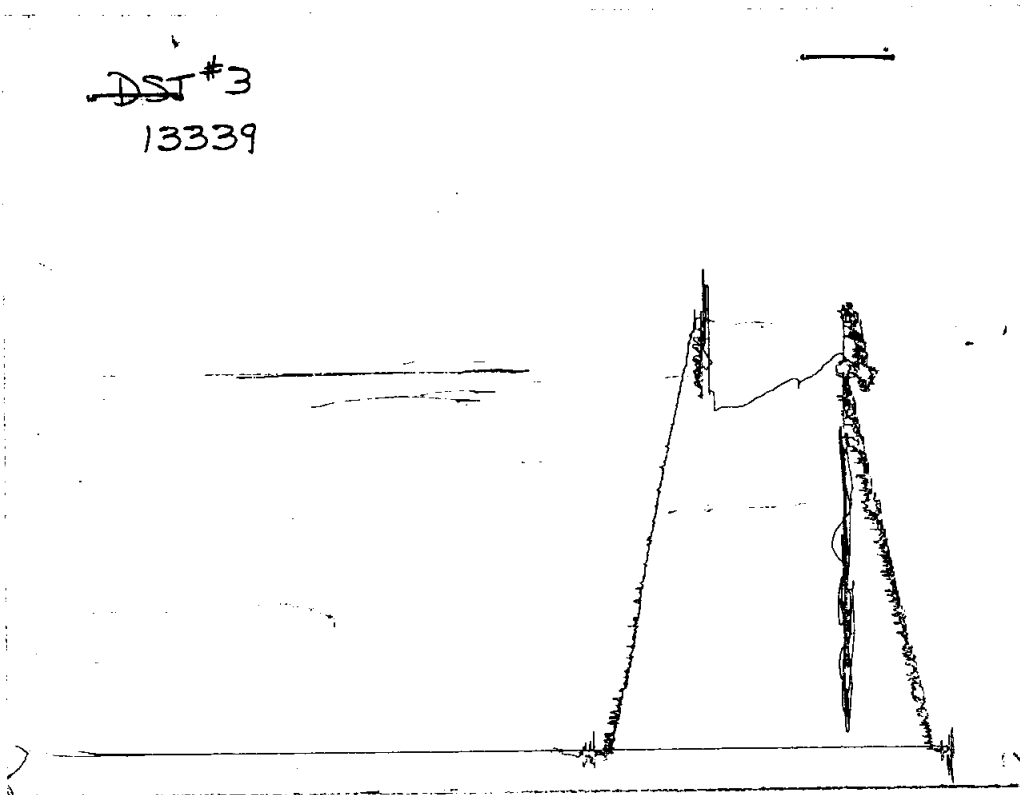
(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure \_\_\_\_\_ PSI Initial Opening 30 Final Flow 5

(H) Final Hydrostatic Mud 2240.9 PSI Initial Shut-in 60 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	2253	2260.9
(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	2233	2240.9

Test Ticket

No 5641

Well Name & No. Walter #2-15 Test No. 3 Date 12-3-92  
 Company Ranken Energy Corporation Zone Tested Mississippian  
 Address 2325 S.W. 15<sup>th</sup> St. Edmond, OK. 73013-2027 Elevation 2570 (GL)  
 Co. Rep./Geo. Tom Larson/Doug Bellis cont. Emphasis #7 Est. Ft. of Pay 8'  
 Location: Sec. 15 Twp. 18 S Rge. 26 W Co. Ness State KS  
 No. of Copies Normal Distribution Sheet Yes  No Turnkey Yes  No Evaluation

Interval Tested 4539 - 4549 Drill Pipe Size 4 1/2" XH.  
 Anchor Length 10' Top Choke — 1" Bottom Choke — 3/4"  
 Top Packer Depth 4534 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 4539 Wt. Pipe I.D. — 2.7 Ft. Run  
 Total Depth 4549 Drill Collar — 2.25 Ft. Run  
 Mud Wt. 9.2 lb/gal. Viscosity 41 Filtrate —  
 Tool Open @ 10:15 am Initial Blow Weak 1/4" blow died in 23 mins.

Final Blow No blow - flushed tool - no help.

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>5'</u>		<u>No</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>5'</u> 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 114° °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

- (A) Initial Hydrostatic Mud 2253 PSI AK1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 4541 w/Clock No. 25810
- (C) First Final Flow Pressure Anchor PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure Plugged PSI @ (depth) 4544 w/Clock No. 27566
- (E) Second Initial Flow Pressure off PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_
- (F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_
- (G) Final Shut-In Pressure \_\_\_\_\_ PSI Initial Opening 30 Test Misrun 400.00
- (H) Final Hydrostatic Mud 2233 PSI Initial Shut-In 60 Jars \_\_\_\_\_

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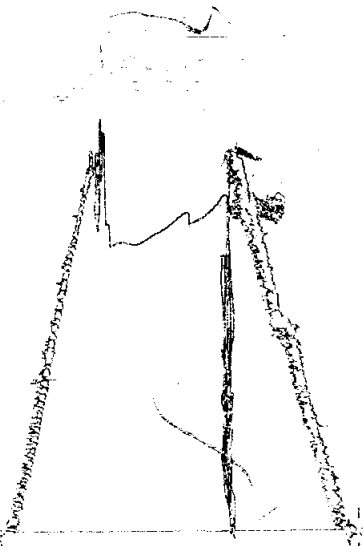
Final Flow 5 Safety Joint \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Straddle \_\_\_\_\_  
 Circ. Sub X N/C  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_

Approved By Doug Bellis

Our Representative Rod Steinbrink

DST#3

13309



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name WALTER #2-15 Test No. 4 Date 12/4/92  
Company RANKEN ENERGY CORPORATION Zone MISS  
Address 2325 S.W. 15th ST EDMOND OK 73013-2024 Elevation 2570  
Co. Rep./Geo. DOUG BELLIS Cont. EMPHASIS RIG #7 Est. Ft. of Pay 8  
Location: Sec. 15 Twp. 18S Rge. 26W Co. NESS State KS

Interval Tested 4517-4549 Drill Pipe Size 4.5" XH  
Anchor Length 32 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4512 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4517 Mud Wt. 9.1 lb/Gal.  
Total Depth 4549 Viscosity 47 Filtrate \_\_\_\_\_

Tool Open @ 3:13 AM Initial Blow SURFACE BLOW BUILT TO 10" IN 26 MINUTES  
ISI: BLED OFF BLOW - SURFACE RETURN IN 23 MINUTES  
Final Blow SURFACE BLOW OFF BOTTOM IN 30 MINUTES  
FSI: BLED OFF BLOW - NO RETURN

Recovery - Total Feet 245 Flush Tool? NO

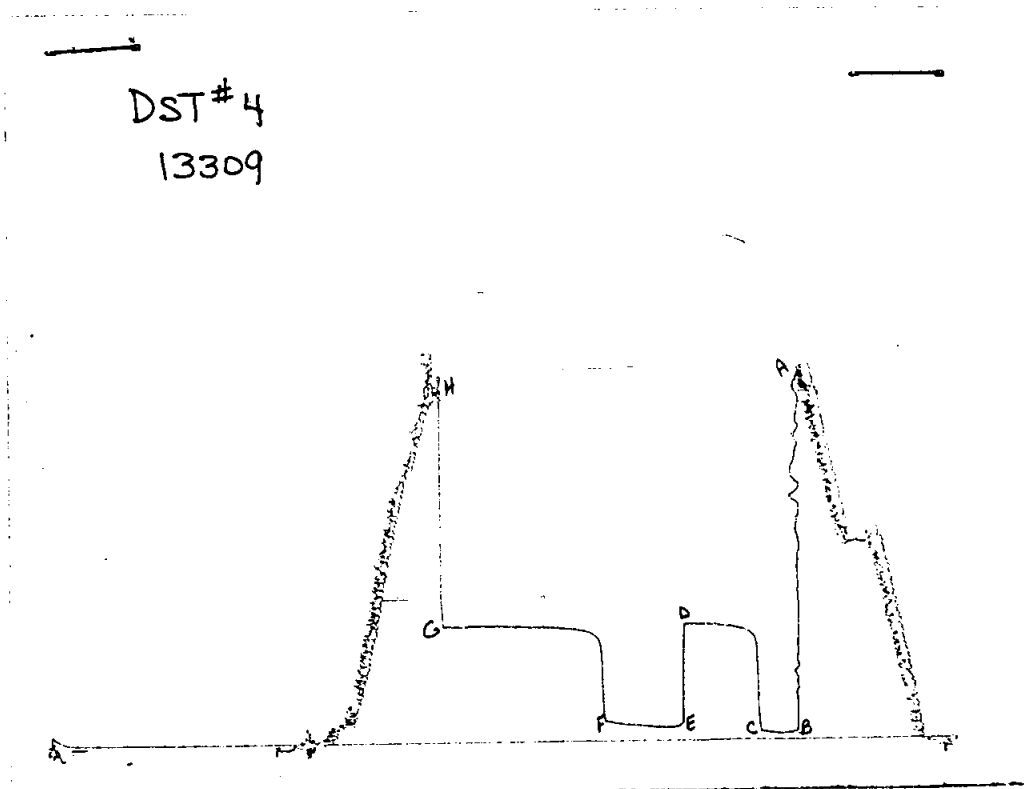
Rec. 5 Feet of CLEAN OIL  
Rec. 120 Feet of DRILLING MUD  
Rec. 120 Feet of MUDDY WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 131 °F Gravity 37.4 °API @ 58 °F Corrected Gravity 38 °API  
RW 0.68 @ 60 °F Chlorides 11000 ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2230.6 PSI AK1 Recorder No. 13309 Range 4700  
(B) First Initial Flow Pressure 80.9 PSI @ (depth) 4539 w / Clock No. 25810  
(C) First Final Flow Pressure 91.6 PSI AK1 Recorder No. 13339 Range 4025  
(D) Initial Shut-in Pressure 728.9 PSI @ (depth) 4544 w / Clock No. 27566  
(E) Second Initial Flow Pressure 120.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 161.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 727.8 PSI Initial Opening 30 Final Flow 60  
(H) Final Hydrostatic Mud 2206.9 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2223	2230.6
(B) FIRST INITIAL FLOW PRESSURE	72	80.9
(C) FIRST FINAL FLOW PRESSURE	83	91.6
(D) INITIAL CLOSED-IN PRESSURE	719	728.9
(E) SECOND INITIAL FLOW PRESSURE	114	120.3
(F) SECOND FINAL FLOW PRESSURE	155	161.9
(G) FINAL CLOSED-IN PRESSURE	719	727.8
(H) FINAL HYDROSTATIC MUD	2203	2206.9

# TRILOBITE TESTING L.L.C.

P.O. BOX 362 • Hays, Kansas 67601

## Test Ticket

No 5642

Well Name & No. Walter #2-15 Test No. 4 Date 10-4-92  
Company Ranken Energy Corporation Zone Tested Mississippian  
Address 2325 S.W. 15<sup>th</sup> St. Edmond, OK 73013-2027 Elevation 2570 (GL)  
Co. Rep./Geo. Tom Larson / Doug Bellis cont. Emphasis #7 Est. Ft. of Pay 8'  
Location: sec. 15 Twp. 18 S Rge. 26 W Co. Ness State KS.  
No. of Copies Normal Distribution Sheet Yes  No  Turnkey Yes  No  Evaluation

Interval Tested 4517 - 4549 Drill Pipe Size 4 1/2" XH.  
Anchor Length 32' Top Choke - 1" Bottom Choke - 3/4"  
Top Packer Depth 4512 Hole Size - 7 7/8" Rubber Size - 6 3/4"  
Bottom Packer Depth 4517 Wt. Pipe I.D. - 2.7 Ft. Run  
Total Depth 4549 Drill Collar - 2.25 Ft. Run  
Mud Wt. 9.1 lb/gal. Viscosity 47 Filtrate

Tool Open @ 3:12 am. Initial Blow Surface blow built to 10" in 26 mins.  
ISI: Bled off blow - surface return in 23 mins.  
Final Blow Surface blow off bottom in 30 mins.  
FSI: Bled off blow - No return.

Recovery - Total Feet 245' Feet of Gas In Pipe \_\_\_\_\_ Flush Tool? No

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>5'</u>	<u>CO</u>				
<u>120'</u>	<u>Drig. Mud</u>				
<u>120'</u>	<u>Muddy Water</u>				

BHT 131° °F Gravity 37.4 °API @ 58° °F Corrected Gravity 37.6 °API

RW .68 @ 60 °F Chlorides 11,000 ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2223 PSI Ak1 Recorder No. 13309 Range 4700  
(B) First Initial Flow Pressure 72 <sup>80?</sup> PSI @ (depth) 4539 w/Clock No. 25810  
(C) First Final Flow Pressure 83 PSI Ak1 Recorder No. 13339 Range 4025  
(D) Initial Shut-In Pressure 719 PSI @ (depth) 4544 w/Clock No. 27566  
(E) Second Initial Flow Pressure 114 PSI Ak1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 155 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
(G) Final Shut-In Pressure 719 PSI Initial Opening 30 Test 600.00  
(H) Final Hydrostatic Mud 2203 PSI Initial Shut-In 60 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.

Approved By Doug Bellis  
Our Representative Rod Steinbrink

Final Flow 60 Safety Joint \_\_\_\_\_  
Final Shut-In 120 Straddle \_\_\_\_\_  
Circ. Sub X N/C \_\_\_\_\_  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Other \_\_\_\_\_

DST#4  
13339

