TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HOOVLER #1-36 Test No. 1 Date 7/10/92

Company RANKEN ENERGY CORP. Zone MISSISSIPPI

Address 2325 W. 15TH EDMOND OK 73013 Elevation 2414

Co. Rep./Geo. DOUG BELLIS Cont. EMPHASIS #7 Est. Ft. of Pay

Location: Sec. 36 Twp. 17S Rge. 25W Co. NESS State KS

Interval Tested 4340-4384 Drill Pipe Size 4.5 XH

Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4335 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 4340 Mud Wt. 9.2 lb/Gal.

Total Depth 4384 Viscosity 52 Filtrate 12

Tool Open @ 8:02 AM Initial Blow 1/4" BLOW DECREASED AND DIED IN 25 MINUTES

Final Blow NO RETURN - FLUSHED TOOL/GOOD SURGE-
NO HELP

Recovery - Total Feet 20 Flush Tool? YES

Rec. 20 Feet of OIL STAINED MUD-1%OIL/99%MUD

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 2236.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 44.2 PSI @ (depth) 4374 w / Clock No. 25814

(C) First Final Flow Pressure 44.2 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1147.8 PSI @ (depth) 4379 w / Clock No. 27566

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

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

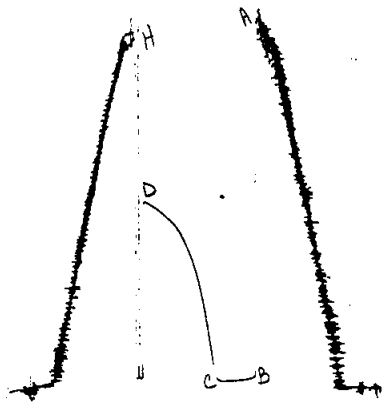
(G) Final Shut-in Pressure PSI Initial Opening 25 Final Flow 5

(H) Final Hydrostatic Mud 2180.7 PSI Initial Shut-in 60 Final Shut-in

Our Representative ROD STEINBRINK

CHART PAGE

DST #1
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2223	2236.9
(B) FIRST INITIAL FLOW PRESSURE	41	44.2
(C) FIRST FINAL FLOW PRESSURE	41	44.2
(D) INITIAL CLOSED-IN PRESSURE	1140	1147.8
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2183	2180.7

TRILOBITE TESTING L.L.C.

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Test Ticket

№ 5021

Well Name & No. Hoovler #1-36 Test No. 1 Date 7-10-92

Company Ranken Energy Corporation Zone Tested Mississippian

Address 2325 S.W. 15th St. Edmond, OK. 73013 Elevation 2414 (KB)

Co. Rep./Geo. Doug Bellis Cont. Emphasis #7 Est. Ft. of Pay

Location: Sec. 36 Twp. 17 S Rge. 25 W Co. Ness State KS.

No. of Copies Normal Distribution Sheet ____ Yes X No Turnkey ____ Yes X No ____ Evaluation

Interval Tested 4340 - 4384 Drill Pipe Size 4½" XH

Anchor Length 44' Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 4335 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 4340 Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 4384 Drill Collar — 2.25 Ft. Run —

Mud Wt. 9.2 lb/gal. Viscosity 52 Filtrate 12.0

Tool Open @ 8:02 am Initial Blow ¼" blow decreased and died in 25 mins.

Final Blow No return - flushed tool / good surge - no help.

Recovery — Total Feet ____ Feet of Gas in Pipe ____ Flush Tool? YES

Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	20'	Feet Of	Oil Stained Mud	%gas	1 %oil	— %water	99 %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	2223 PSI	AK1 Recorder No.	13309	Range	4700
(B) First Initial Flow Pressure	41 PSI	@ (depth)	4374	w/Clock No.	25814
(C) First Final Flow Pressure	41 PSI	AK1 Recorder No.	13339	Range	4025
(D) Initial Shut-In Pressure	1140 PSI	@ (depth)	4379	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	25	Test	
(H) Final Hydrostatic Mud	2183 PSI	Initial Shut-In	60	Jars	
		Final Flow	5	Safety Joint	
		Final Shut-In	—	Straddle	
				Circ. Sub	X n/c
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	

Approved By Doug Bellis

Our Representative Rod Steinbrink

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Drill-Stem Test Data

Well Name HOOVLER #1-36 Test No. 2 Date 7/10/92

Company RANKEN ENERGY CORP. Zone MISSISSIPPI

Address 2325 W. 15TH EDMOND OK 73013 Elevation 2414

Co. Rep./Geo. DOUG BELLIS Cont. EMPHASIS #7 Est. Ft. of Pay 4

Location: Sec. 36 Twp. 17S Rge. 25W Co. NESS State KS

Interval Tested 4340-4390 Drill Pipe Size 4.5 XH

Anchor Length 50 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4335 Drill Collar – 2.25 Ft. Run 30

Bottom Packer Depth 4340 Mud Wt. 9.2 lb/Gal.

Total Depth 4390 Viscosity 52 Filtrate 12

Tool Open @ 6:20 PM Initial Blow SURFACE BLOW GRADUALLY BUILT TO 3"

ISI:BLED OFF BLOW-NO RETURN

Final Blow SURFACE RETURN IN 2 MINUTES SLOWLY BUILT TO 1.5"

Recovery - Total Feet 70 Flush Tool? NO

Rec. 10 Feet of FREE OIL

Rec. 60 Feet of OIL CUT MUD-10%OIL/90%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 118 °F Gravity 40 °API @ 72 °F Corrected Gravity 38.8 °API

RW @ °F Chlorides ppm Recovery Chlorides N/A ppm System

(A) Initial Hydrostatic Mud 2188.5 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 60.3 PSI @ (depth) 4380 w / Clock No. 25814

(C) First Final Flow Pressure 60.3 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1167.4 PSI @ (depth) 4385 w / Clock No. 27566

(E) Second Initial Flow Pressure 70.5 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 70.5 PSI @ (depth) w / Clock No.

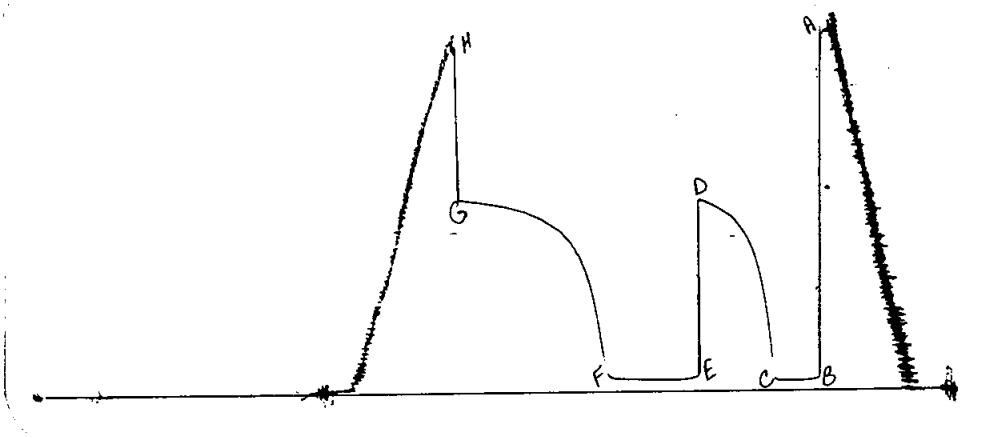
(G) Final Shut-in Pressure 1165.3 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2055.4 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

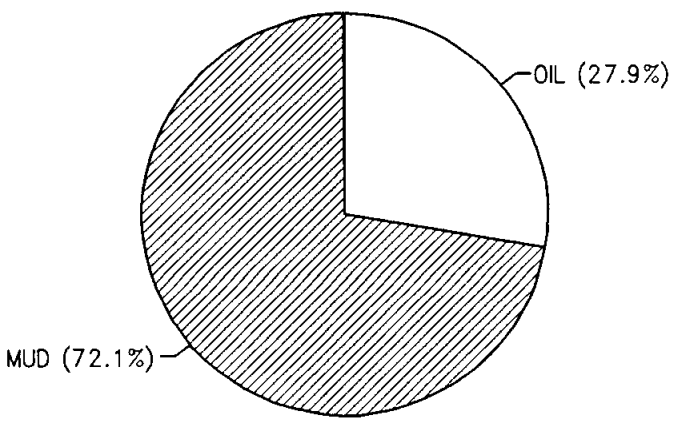
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2183	2188.5
(B) FIRST INITIAL FLOW PRESSURE	52	60.3
(C) FIRST FINAL FLOW PRESSURE	52	60.3
(D) INITIAL CLOSED-IN PRESSURE	1160	1167.4
(E) SECOND INITIAL FLOW PRESSURE	62	70.5
(F) SECOND FINAL FLOW PRESSURE	62	70.5
(G) FINAL CLOSED-IN PRESSURE	1160	1165.3
(H) FINAL HYDROSTATIC MUD	2053	2055.4

CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET # 5022

SAMPLE	TOTAL		GAS		OIL		WATER		MUD
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	10	0	0	100	10	0	0	0	0
PIPE 2	30	0	0	10	3	0	0	90	27
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	30	0	0	10	3	0	0	90	27
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	70		0		16		0		54

			HRS OPEN	BBL/DAY
BBL OIL=	0.19953	*	1.5	3.19248
BBL WATER=	0	*		0
BBL MUD=	0.51597			
BBL GAS =	0			



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Test Ticket

No. 5022

Well Name & No. Hoovler #1-36 Test No. 2 Date 7-10-92

Company Ranken Energy Corporation Zone Tested Mississippian

Address 2325 S.W. 15th St. Edmond, OK. 73013 Elevation 2414 (KB)

Co. Rep./Geo. Doug Bellis Cont. Emphasis #7 Est. Ft. of Pay 4'

Location: Sec. 36 Twp. 17 S Rge. 25 W Co. Ness State KS.

No. of Copies Normal Distribution Sheet ____ Yes X No Turnkey ____ Yes X No ____ Evaluation

Interval Tested 4340 - 4390 Drill Pipe Size 4½" XH

Anchor Length 50' Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 4335 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 4340 Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 4390 Drill Collar — 2.25 Ft. Run 30'

Mud Wt. 9.2 lb/gal. Viscosity 52 Filtrate 12.0

Tool Open @ 6:20 pm Initial Blow Surface blow gradually built to 3". ISI: Bled off blow - No return.

Final Blow Surface return in 2 mins slowly built to 1½"

Recovery — Total Feet 70' Feet of Gas in Pipe — Flush Tool? No

Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. 10'	Feet Of Free Oil	— %gas	100 %oil	— %water	— %mud
Rec. ____	Feet Of "	" %gas	%oil	%water	%mud
Rec. 60'	Feet Of DCM	— %gas	10 %oil	— %water	90 %mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 118° °F Gravity 40 °API @ 72° °F Corrected Gravity 38.8 °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud 2183 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 52 PSI @ (depth) 4380 w/Clock No. 25814

(C) First Final Flow Pressure 52 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-In Pressure 1160 PSI @ (depth) 4385 w/Clock No. 27566

(E) Second Initial Flow Pressure 62 PSI AK1 Recorder No. — Range —

(F) Second Final Flow Pressure 62 PSI @ (depth) — w/Clock No. —

(G) Final Shut-In Pressure 1160 PSI Initial Opening 30 Test ____

(H) Final Hydrostatic Mud 2053 PSI Initial Shut-In 60 Jars ____

Final Flow 60 Safety Joint ____

Final Shut-In 120 Straddle ____

Circ. Sub X n/c

Sampler ____

Extra Packer ____

Other ____

TOTAL PRICE $ ____

Approved By Doug Bellis

Our Representative Rod Steinbrink

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