TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MARY #1-21 Test No. 1 Date 9/8/92

Company ENRON OIL & GAS COMPANY Zone ST LOUIS

Address 20 N BROADWAY #830 OKLAHOMA CITY OK 73102 Elevation 2901

Co. Rep./Geo. RAYMOND HAMILTON Cont. DUKE DRLG RIG #4 Est. Ft. of Pay

Location: Sec. 21 Twp. 21S Rge. 31W Co. FINNEY State KS

Interval Tested 4755-4825 Drill Pipe Size 4.5" XH

Anchor Length 70 Wt. Pipe I.D. - 2.7 Ft. Run 248

Top Packer Depth 4750 Drill Collar – 2.25 Ft. Run 120

Bottom Packer Depth 4755 Mud Wt. 9.7 lb/Gal.

Total Depth 4825 Viscosity 50 Filtrate 7

Tool Open @ 12:45 PM Initial Blow VERY STRONG 12" BLOW IN 1 MINUTE

Final Blow VERY STRONG 12" BLOW IN 2 MINUTES

Recovery - Total Feet 2790 Flush Tool? NO

Rec. 1240 Feet of MUDDY WATER-60%WTR/40%MUD

Rec. 682 Feet of MUDDY WATER-80%WTR/20%MUD

Rec. 868 Feet of GASSY WATER-5%GAS/95%WATER

Rec. Feet of

Rec. Feet of

BHT 124 °F Gravity °API @ °F Corrected Gravity °API

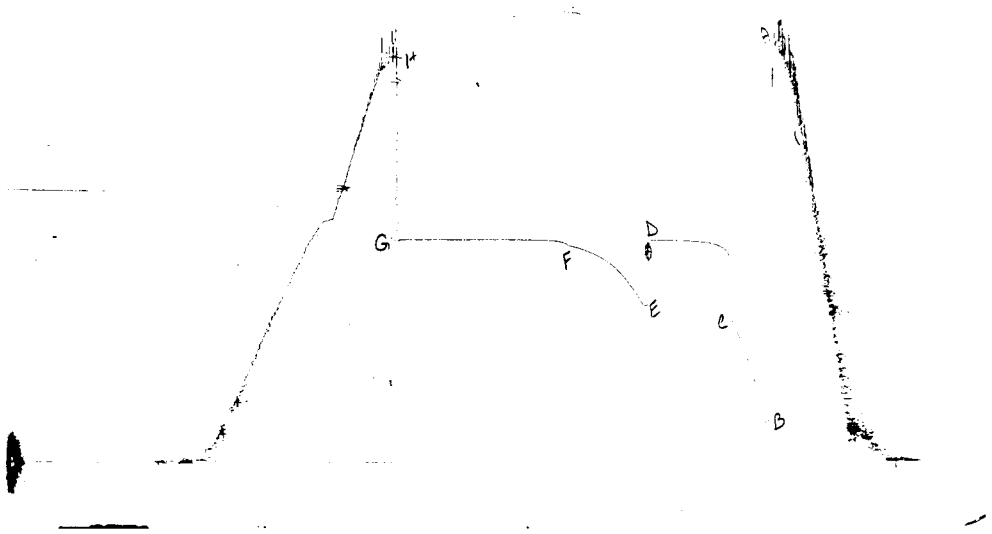
RW 0.3 @ 79 °F Chlorides 22000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud	2488.3 PSI	AK1 Recorder No.	13851	Range	4425
(B) First Initial Flow Pressure	241.6 PSI	@ (depth)	4757	w / Clock No.	26191
(C) First Final Flow Pressure	825.9 PSI	AK1 Recorder No.	13850	Range	4325
(D) Initial Shut-in Pressure	1280.5 PSI	@ (depth)	4822	w / Clock No.	17658
(E) Second Initial Flow Pressure	920.4 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	1240.6 PSI	@ (depth)		w / Clock No.	
(G) Final Shut-in Pressure	1296.3 PSI	Initial Opening	30	Final Flow	60
(H) Final Hydrostatic Mud	2370.3 PSI	Initial Shut-in	60	Final Shut-in	120

Our Representative STEVE BOWMAN

CHART PAGE

DST #1
13851



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2475	2488.3
(B) FIRST INITIAL FLOW PRESSURE	235	241.6
(C) FIRST FINAL FLOW PRESSURE	821	825.9
(D) INITIAL CLOSED-IN PRESSURE	1282	1280.5
(E) SECOND INITIAL FLOW PRESSURE	917	920.4
(F) SECOND FINAL FLOW PRESSURE	1239	1240.6
(G) FINAL CLOSED-IN PRESSURE	1293	1296.3
(H) FINAL HYDROSTATIC MUD	2366	2370.3

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Test Ticket

No. 5070

Well Name & No. Mary # 1-21 Test No. #1 Date 9-8-92

Company Enson Oil + Gas Company Zone Tested ST. Louis

Address 20 N Broadway #330 Oklahoma City, OK 73102 Elevation 2901 G.L.

Co. Rep / Geo. Raymond Hamilton Cont. Duke Drilling Rig #4 Est. Ft. of Pay

Location: Sec. 21 Twp. 21s Rge. 31w Co. Finney State KS

No. of Copies 6 Distribution Sheet ____ Yes ✓ No Turnkey ____ Yes ✓ No ____ Evaluation

Interval Tested 4755 to 4825 Drill Pipe Size 4½ XH

Anchor Length 70' Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 4750 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 4755 Wt. Pipe I.D. — 2.7 Ft. Run 248

Total Depth 4825 Drill Collar — 2.25 Ft. Run 120

Mud Wt. 9.7 lb / gal. Viscosity 50 Filtrate 7.0

Tool Open @ 12:45 PM Initial Blow Very Strong 12 inch Blow in 1 min

Final Blow Very Strong 12 inch Blow in 2 min

Recovery — Total Feet 2790 Feet of Gas in Pipe -0- Flush Tool? NC

Rec. 1240	Feet Of	Muddy water	%gas	%oil 60	%water 40	%mud	
Rec. 682	Feet Of	muddy water	%gas	%oil 30	%water 20	%mud	
Rec. 868	Feet Of	Grassy water	5 %gas	%oil 95	%water	%mud	
Rec.	Feet Of		%gas	%oil	%water	%mud	
Rec.	Feet Of		%gas	%oil	%water	%mud	

BHT 124 °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW .3 @ 79 °F Chlorides 22,000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud	2475 PSI	AK1 Recorder No.	13851	Range	4425
(B) First Initial Flow Pressure	235 PSI	@ (depth)	4757	w/Clock No.	26191
(C) First Final Flow Pressure	821 PSI	AK1 Recorder No.	13850	Range	4325
(D) Initial Shut-In Pressure	1232 PSI	@ (depth)	4822	w/Clock No.	17658
(E) Second Initial Flow Pressure	917 PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	1239 PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	1293 PSI	Initial Opening	30	Test ✓	
(H) Final Hydrostatic Mud	2366 PSI	Initial Shut-In	60	Jars ✓	
		Final Flow	60	Safety Joint ✓	
		Final Shut-In	120	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $ ✓	

Approved By Raymond Hamilton

Our Representative Steve Bowman

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