15-095-20040

25-29s-7w

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Kathol Petroleum Inc. Lease & Well No. Millard # 1

Elevation 1507 Derrick Floor Formation Mississippi Effective Pay ---------- Ft. Ticket No. 7966

Date 9-3-67 Sec. 25 Twp. 29 Range 7 County Kingman State Kansas

Test Approved by Don Shawver Western Representative Leon Elmore

Formation Test No. 2 O.K. x Misrun ____ Interval Tested From 4098' to 4118' Total Depth 4118'

Size Main Hole 7 7/8 Rat Hole ____ Conv. x B.T. ____ Damaged ____ Yes x No Conv. x B.T. ____ Damaged ____ Yes x No

Packer Depth 4093 Ft. Size 6 3/4 Packer Depth 4098 Ft. Size 6 3/4

Straddle ____ Yes x No ____ Conv. ____ B.T. ____ Damaged ____ Yes ____ No

Packer Depth ____ Ft. Size ____

Tool Size 5½" O.D. Tool Jt. Size 4½" F.H. Anchor Length 20 Ft. Size 5½" O.D.

RECORDERS Depth 4111 Ft. Clock No. 5665 Depth 4114 Ft. Clock No. 6897

Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside

Below Straddle: Depth ____ Clock No. ____ Inside Outside Depth ____ Ft. Clock No. ____ Inside Outside

Top Make ____ Cap. ____ No. ____ Inside Outside Bottom Make ____ Cap. ____ No. ____ Inside Outside

Time Set Packer 2:47 A. M

Tool Open I.F.P. From 2:48 A M. to 3:03 A M. Hr. 15 Min. From (B) 93 P.S.I. To (C) 100 P.S.I.

Tool Closed I.C.I.P. From 3:03 A M. to 3:33 A M. Hr. 30 Min. (D) 1212 P.S.I.

Tool Open F.F.P. From 3:33 A M. to 4:33 A M. 1 Hr. -- Min. From (E) 100 P.S.I. To (F) 114 P.S.I.

Tool Closed F.C.I.P. From 4:33 A M. to 5:03 A M. Hr. 30 Min. (G) 1147 P.S.I.

Initial Hydrostatic Pressure (A) 2171 P.S.I. Final Hydrostatic Pressure (H) 2163 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.		M.	
	(See attached sheet)		M.	
			M.	

BLOW Strong Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes x No Recovery Total Ft. 240 feet total; 120 feet thin gas cut mud -- 120 feet salt water.

Reversed Out ____ Yes x No Mud Type starch Viscosity 42 Weight 9.6 Water Loss ------- cc. Maximum Temp. 120 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size ____ Make ____ Ser. No. ____

Type Circ. Sub plug Did Tool Plug? no Where? ____ Did Packer Hold? yes

Length Drill Pipe 2959 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1079 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 40 ft.

Remarks Gas to surface in 3 1/2 minutes - Gaged 379,000.

WESTERN TESTERS

P. O. BOX 793
GREAT BEND, KANSAS

COMPANY Kathol Petroleum Inc. LEASE & WELL NO Millard # 1

TEST NO. 2 INTERVAL TESTED FROM 3998' TO 4018'

TIME PRE-FLOW	MAX PRESS. P.S.I.	DESCRIPTION OF FLOW
5 Minutes Pee Flow	4.5	295,000
10	5	310,000
15	5.5	325,000
5 Minutes Final Flow	9	416,000
10	9	416,000
15	8.5	410,000
SECOND FLOW		
20	8	396,000
25	8	391,000
30	7.8	383,000
35	7.5	379,000
40	7.5	379,000
45	7.5	379,000
50	7.5	379,000
55	7.5	379,000
60	7.5	379,000

SIZE CHOKE SURFACE 3/4 IN. BOTTOM 3/4 IN.

REMARKS Gas to surface in 3 1/2 minutes.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-3-67 Test Ticket No. 7966

Recorder No. 3085 Capacity 4500 Location 4111 Ft.

Clock No. 5665 Elevation 1507 Derrick Floor Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2171 P.S.I.	Opened Tool	2:47 A. M.	
B First Initial Flow Pressure	93 P.S.I.	First Flow Pressure	15 Mins.	14 Mins.
C First Final Flow Pressure	100 P.S.I.	Initial Closed-in Pressure	30 Mins.	31 Mins.
D Initial Closed-in Pressure	1212 P.S.I.	Second Flow Pressure	60 Mins.	59 Mins.
E Second Initial Flow Pressure	100 P.S.I.	Final Closed-in Pressure	30 Mins.	31 Mins.
F Second Final Flow Pressure	114 P.S.I.			
G Final Closed-in Pressure	1147 P.S.I.			
H Final Hydrostatic Mud	2163 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 4 Min.

Point Mins.	Press.
P 1 0	93
P 2 5	93
P 3 10	100
P 4 14	100
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 1 Min.

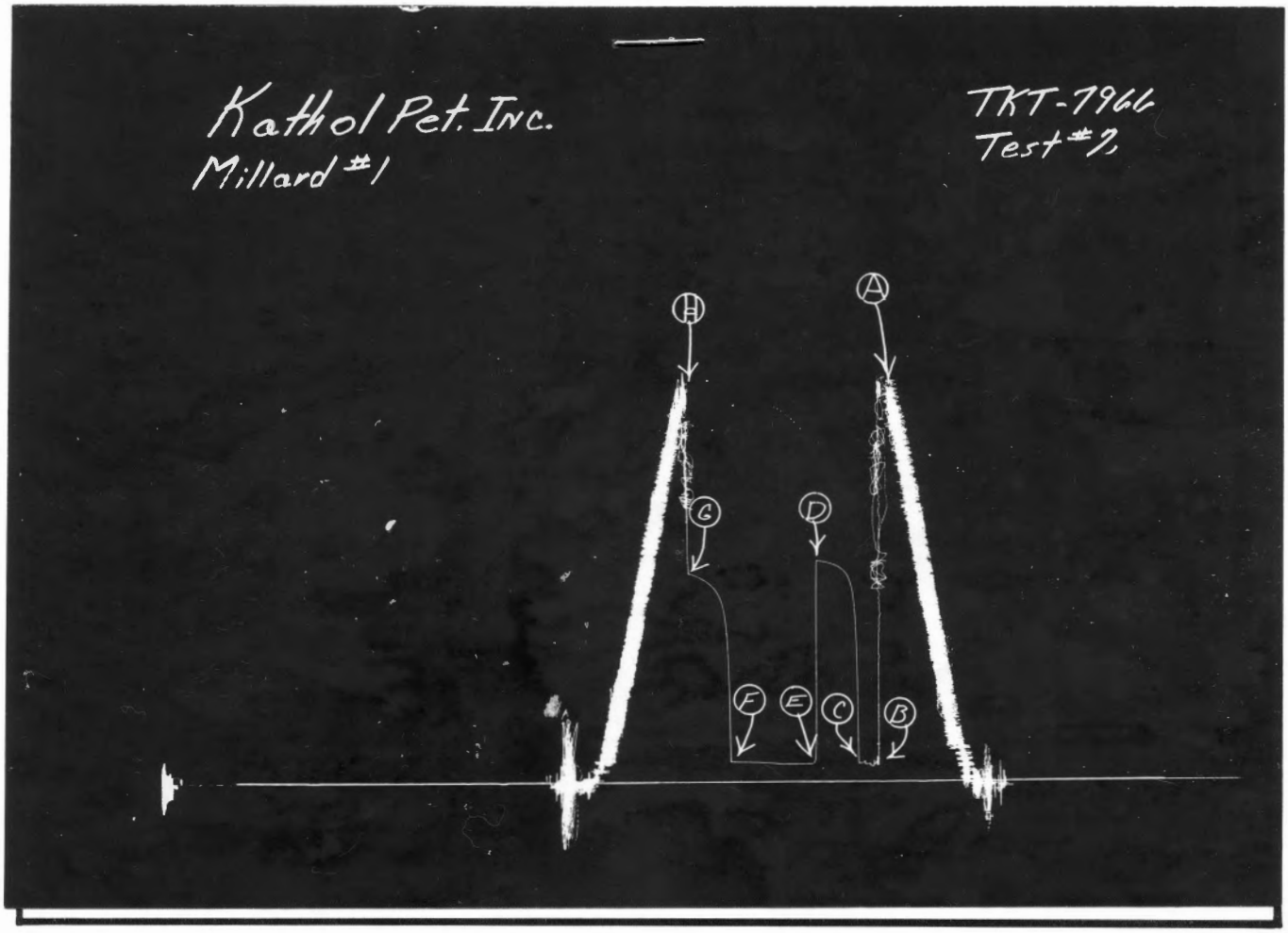
Point Minutes	Press.
0	100
3	571
6	925
9	1078
12	1138
15	1166
18	1182
21	1191
24	1200
27	1205
30	1210
31	1212

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 4 Min.

Point Minutes	Press.
0	100
5	100
10	100
15	100
20	100
25	102
30	105
35	109
40	113
45	113
50	113
55	114
59	114

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	114
3	562
6	834
9	976
12	1036
15	1071
18	1094
21	1113
24	1127
27	1138
30	1146
31	1147



This is an actual photograph of recorder chart.

POINT		PRESSURE
(A)	Initial Hydrostatic Mud	2171 PSI
(B)	First Initial Flow Pressure	93 PSI
(C)	First Final Flow Pressure	100 PSI
(D)	Initial Closed-in Pressure	1212 PSI
(E)	Second Initial Flow Pressure	100 PSI
(F)	Second Final Flow Pressure	114 PSI
(G)	Final Closed-in Pressure	1147 PSI
(H)	Final Hydrostatic Mud	2163 PSI