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

Company Monarch Royalty Inc. Lease & Well No. Peterson #1

Elevation Formation Mississippian Effective Pay Ft. Ticket No. 20121

Date 5-9-74 Sec. 18 Twp. 27S Range 11E County Greenwood State Kansas

Test Approved by Toby Easter Western Representative Forrest Purnell

Formation Test No. 1 O.K. Misrun X Interval Tested From 1938' to 1956' Total Depth 1956'

Size Main Hole 6¼ Rat Hole Conv. X B.T. Damaged Yes No Conv. X B.T. Damaged Yes No

Top Packer Depth 1933 Ft. Size 5½ " Bottom Packer Depth 1938 Ft. Size 5¼"

Straddle No Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 4½"O.D. Tool Joint Size 3½"I.F. Anchor Length 18 Ft. Size 4½"O.D. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1947 Ft. Clock No. 8376 Depth 1950 Ft. Clock No. 9726

Top Make Kuster Cap. 3000 No. 3474 Inside ~~Outside~~ Bottom Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside

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

Time Set Packer 1:12 A.M

Tool Open I.F.P. From 1:15 M. to 2:00A. M. Hr. 45 Min. From (B) 222 P.S.I. To (C) 257 P.S.I.

Tool Closed I.C.I.P. From 2:00 M. to 2:45A. M. Hr. 45 Min (D) 682 P.S.I.

Tool Open F.F.P. From 2:45 M. to 3:30A. M. Hr. 45 Min. From (E) 277 P.S.I. To (F) 302 P.S.I.

Tool Closed F.C.I.P. From 3:30 M. to 4:15A. M. Hr. 45 Min. (G) 683 P.S.I.

Initial Hydrostatic Pressure (A) 1015 P.S.I. Final Hydrostatic Pressure (H) 1015 P.S.I. Maximum Temp. 104

INFORMATION

BLOW Weak blow thru out test

Did Well Flow Yes X No Recovery Total Ft. 635 feet total fluid 90 feet salt water
545 feet drilling mud

Reversed Out Yes No Mud Type Chem. Viscosity 40 Weight 9.8 Water Loss 20.0 cc. Chlorides 1200

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? Where?

DRILLING CONTRACTOR Johnson Drlg. Co. Length Drill Pipe? 1827 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3½"I.F. In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 90 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 3½I.F. In. Length D.S.T. Tool 39 Ft.

Remarks: Tool joints leaks

WESTERN TESTING CO., INC.
Pressure Data

Date 5-9-74 Test Ticket No. 20121

Recorder No. 3474 Capacity 3000 Location 1947 Ft.

Clock No. [redacted] 8376 Elevation Well Temperature 104 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1015	P.S.I.
B	First Initial Flow Pressure	222	P.S.I.
C	First Final Flow Pressure	257	P.S.I.
D	Initial Closed-in Pressure	682	P.S.I.
E	Second Initial Flow Pressure	277	P.S.I.
F	Second Final Flow Pressure	302	P.S.I.
G	Final Closed-in Pressure	683	P.S.I.
H	Final Hydrostatic Mud	1015	P.S.I.

	Time Given	Time Computed
Open Tool	1:12 A. M.	
First Flow Pressure	45 Mins.	45 Mins.
Initial Closed-in Pressure	45 Mins.	42 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	45 Mins.	45 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	222
P 2	5	226
P 3	10	231
P 4	15	234
P 5	20	238
P 6	25	243
P 7	30	248
P 8	35	249
P 9	40	254
P10	45	257
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In

Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	257
3	586
6	627
9	847
12	658
15	665
18	668
21	671
24	673
27	676
30	677
33	679
36	680
39	681
42	682

Second Flow Pressure

Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

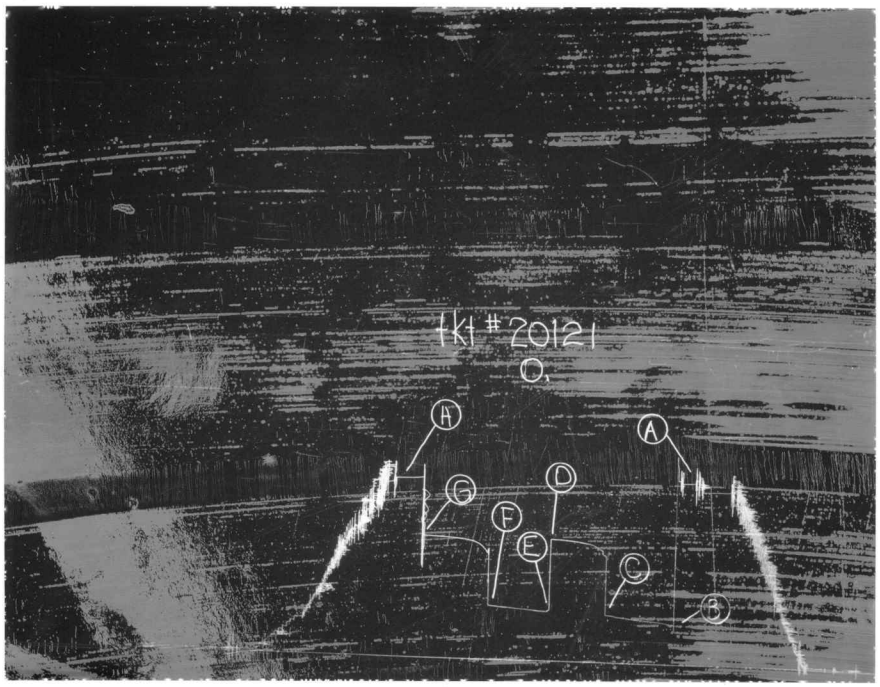
Point Minutes	Press.
0	277
5	277
10	277
15	278
20	283
25	288
30	291
35	295
40	298
45	302

Final Shut-In

Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	302
3	608
6	635
9	647
12	656
15	664
18	667
21	668
24	671
27	673
30	674
33	676
36	677
39	680
42	682
45	683

COMPANY Monarch Royalty Inc. LEASE AND WELL NO. Peterson #1 SEC. 18 TWP. 27S RGE. 11E TEST NO. 1 DATE 5-9-74



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1015	1015	PSI
(B)	First Initial Flow Pressure	230	222	PSI
(C)	First Final Flow Pressure	269	257	PSI
(D)	Initial Closed-in Pressure	689	682	PSI
(E)	Second Initial Flow Pressure	269	277	PSI
(F)	Second Final Flow Pressure	292	302	PSI
(G)	Final Closed-in Pressure	689	683	PSI
(H)	Final Hydrostatic Mud	1015	1015	PSI