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

Company Commercial Oil Company Lease & Well No. Riely #1

Elevation ------ Formation Mississippi Effective Pay ------ Ft. Ticket No. 8975

Date July 22,1967 Sec. ---- Twp. ---- Range ------ County Butler State Kansas

Test Approved by W. P. Simmons Western Representative Jack Toelkes

Formation Test No. 1 O.K. x Misrun Interval Tested From 2710' to 2720' Total Depth 2720'

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

Packer Depth 2715 Ft. Size 6 3/4 Packer Depth 2720 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 10 Ft. Size 5½ OD

RECORDERS Depth 2712 Ft. Clock No. 4763 Depth 2715 Ft. Clock No. 6859

Top Make Amerada Cap. 3150 No. 1564 Inside / Outside Bottom Make Amerada Cap. 3150 No. 1565 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 1:28 P M

Tool Open I.F.P. From 1:30 M. to 1:35 M. Hr. 5 Min. From (B) 54 P.S.I. To (C) 72 P.S.I.

Tool Closed I.C.I.P. From 1:35 M. to 1:50 M. Hr. 15 Min. (D) 679 P.S.I.

Tool Open F.F.P. From 1:50P M. to 2:50 M. 1 Hr. Min. From (E) 100 P.S.I. To (F) 300 P.S.I.

Tool Closed F.C.I.P. From 2:50P M. to 3:05 M. Hr. 15 Min. (G) 568 P.S.I.

Initial Hydrostatic Pressure (A) 1439 P.S.I. Final Hydrostatic Pressure (H) 1400 P.S.I.

SURFACE INFORMATION	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Strong throughout test. Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 1660' gas in pipe; 660' clean oil;180' oil and gas cut mud

Reversed Out Yes No Mud Type chem. Viscosity 36 Weight 9.9 Water Loss ---- cc. Maximum Temp. 111 °F

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

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

Length Drill Pipe 2510 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 180 ft.

I. D. Drill Collars 2.25 in. Length D.S.T. Tool 30 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date July 22,1967 — Test Ticket No. 8975

Recorder No. 1564 — Capacity 3150 — Location 2712

Clock No. 4763 — Elevation ? Ft. — Well Temperature 111 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1439 P.S.I.	Opened Tool	1:28 P M	
B	First Initial Flow Pressure	54 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	72 P.S.I.	Initial Closed-in Pressure	15 Mins.	18 Mins.
D	Initial Closed-in Pressure	679 P.S.I.	Second Flow Pressure	60 Mins.	61 Mins.
E	Second Initial Flow Pressure	100 P.S.I.	Final Closed-in Pressure	15 Mins.	15 Mins.
F	Second Final Flow Pressure	300 P.S.I.			
G	Final Closed-in Pressure	568 P.S.I.			
H	Final Hydrostatic Mud	1400 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of = Min.

Point Mins.	Press.
P 1 0	54
P 2 5	72
P 3	
P 4	
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: 6 Inc.
of 3 mins. and a
final inc. of = Min.

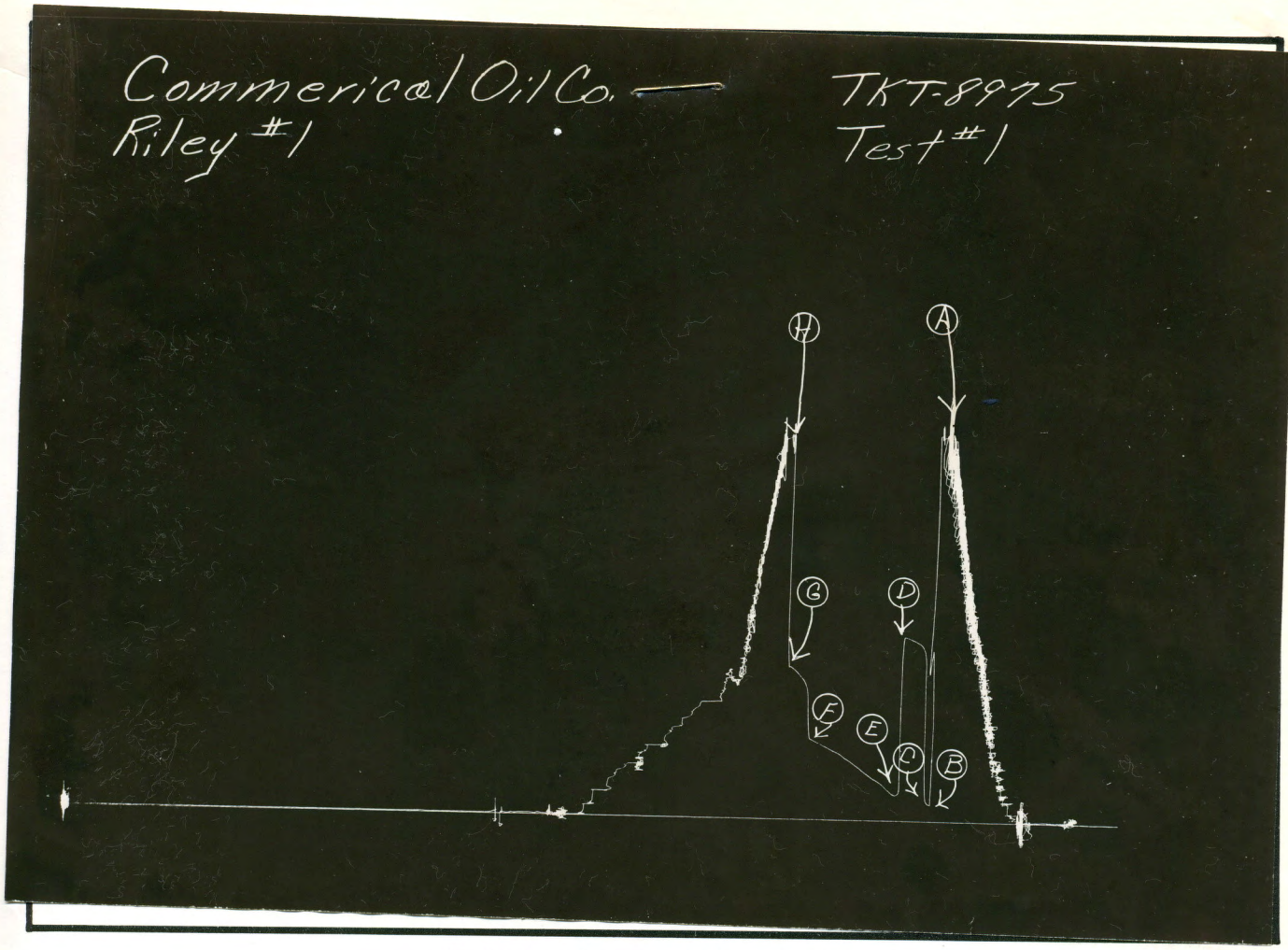
Point Minutes	Press.
0	72
3	618
6	649
9	662
12	671
15	676
18	679

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	100
5	100
10	117
15	139
20	164
25	183
30	203
35	220
40	237
45	253
50	269
55	283
60	295
61	300

Final Shut-In
Breakdown: 5 Inc.
of 3 mins. and a
final inc. of = Min.

Point Minutes	Press.
0	300
3	505
6	531
9	546
12	556
15	568



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	1439	PSI
(B)	First Initial Flow Pressure	54	PSI
(C)	First Final Flow Pressure	72	PSI
(D)	Initial Closed-in Pressure	679	PSI
(E)	Second Initial Flow Pressure	100	PSI
(F)	Second Final Flow Pressure	300	PSI
(G)	Final Closed-in Pressure	568	PSI
(H)	Final Hydrostatic Mud	1400	PSI

COMPANY [illegible] LEASE AND WELL NO. RILEY #1 SEC. TWP. RGE. TEST NO. 1 DATE