WESTERN TESTERS

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

Company Nadel & Gussman Lease & Well No. Musselman # 1

Elevation 2437 Kelly Bushing Formation Conglomerate Effective Pay Ft. Ticket No. 13746

Date 4-4-70 Sec. 29 Twp. 16s Range 22w County Ness State Kansas

Test Approved by George N. Mueller Western Representative John Schwarz

Formation Test No. 1 O.K. x Misrun Interval Tested From 4447' to 4468' Total Depth 4468'

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

Packer Depth 4442 Ft. Size 6 3/4 Packer Depth 4447 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 21 Ft. Size 5½"OD

RECORDERS Depth 4459 Ft. Clock No. 8475 Depth 4462 Ft. Clock No. 6806

Top Make Kuster Cap. 4000 No. 3351 Inside ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2604 ~~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 11:17P M

Tool Open I.F.P. From 11:20 M. to 11:50R M. Hr. 30 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.

Tool Closed I.C.I.P. From 11:50 M. to 12:20R M. Hr. 30 Min. (D) 620 P.S.I.

Tool Open F.F.P. From 12:20 M. to 12:50A M. Hr. 30 Min. From (E) 44 P.S.I. To (F) 44 P.S.I.

Tool Closed F.C.I.P. From 12:50 M. to 1:20A M. Hr. 30 Min. (G) 482 P.S.I.

Initial Hydrostatic Pressure (A) 2362 P.S.I. Final Hydrostatic Pressure (H) 2330 P.S.I.

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

BLOW Very weak, died in 25 minutes on initial flow (11:45) Bottom Choke Size 3/4 In.

Did Well Flow Yes No Recovery Total Ft.

Reversed Out Yes x No Mud Type starch Viscosity 45 Weight 9.8 Water Loss 10.4 cc. Maximum Temp. 118 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 4313 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 114 ft.

I. D. Drill Collars 2¼ in. Length D.S.T. Tool 41 ft.

Remarks

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 4-4-70 Test Ticket No. 13746

Recorder No. 3351 Capacity 4000 Location 4459 Ft.

Clock No. 8475 Elevation 2347 Kelly Bushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2362	P.S.I.	Open Tool	11:17 P M	
B	First Initial Flow Pressure	32	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	32	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	620	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	44	P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F	Second Final Flow Pressure	44	P.S.I.			
G	Final Closed-in Pressure	482	P.S.I.			
H	Final Hydrostatic Mud	2330	P.S.I.			

PRESSURE BREAKDOWN

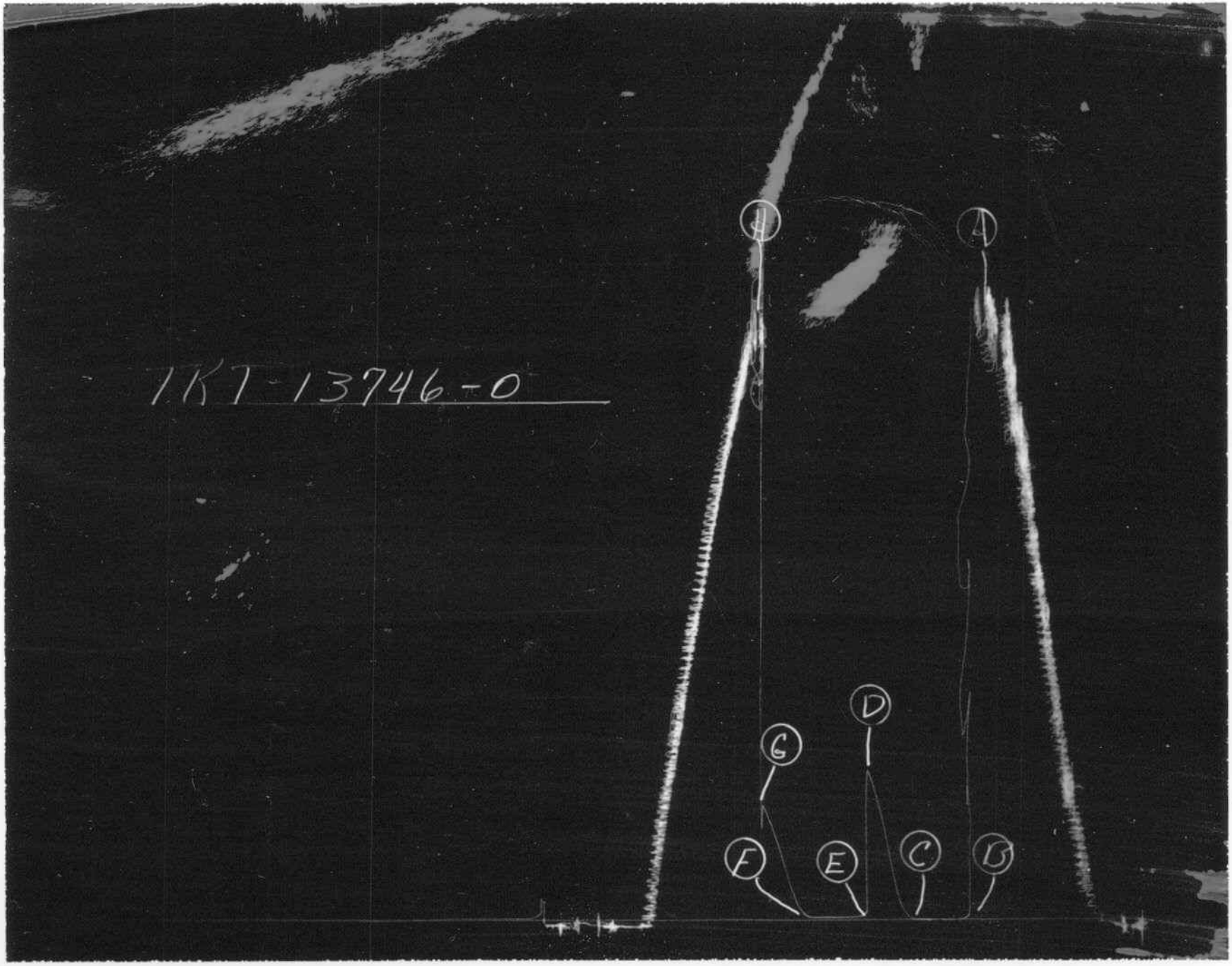
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of ____ Min.

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

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of ____ Min.

Final Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	32		0	32		0	44		0	44
P 2	5	32		3	34		5	44		3	114
P 3	10	32		6	44		10	44		6	128
P 4	15	32		9	76		15	44		9	180
P 5	20	32		12	138		20	44		12	196
P 6	25	32		15	224		25	44		15	240
P 7	30	32		18	322		30	44		18	304
P 8				21	414					21	364
P 9				24	504					24	452
P10				27	568					27	472
P11				30	620						
P12											
P13											
P14											
P15											
P16											
P17											
P18											
P19											
P20											


IKT-13746-0
B
A
D
G
F
E
C
B