8-24-56

WESTERN TESTERS

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

Company Range Oil Co., Inc. Lease & Well No. Walters #1

Elevation 1475 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 15682

Date 11-27-71 Sec. 8 Twp. 24S Range 5E County Butler State Kansas

Test Approved by R. B. Gebhart Jr. Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun Interval Tested From 2170' to 2190' Total Depth 2190'

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

Packer Depth Ft. Size Packer Depth 2170 Ft. Size 6 3/4"

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

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 20 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2183 Ft. Clock No. 8474 Depth 2186 Ft. Clock No. 10434

Top Make Kuster Cap. 4000 No. 3351 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 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 11:48 P. M

Tool Open I.F.P. From 11:50 M. to 12:20A M. Hr. 30 Min. From (B) 8 P.S.I. To (C) 119 P.S.I.

Tool Closed I.C.I.P. From 12:20 M. to 12:50A M. Hr. 30 Min. (D) 826 P.S.I.

Tool Open F.F.P. From 12:50 M. to 1:20A. M. Hr. 30 Min. From (E) 136 P.S.I. To (F) 205 P.S.I.

Tool Closed F.C.I.P. From 1:20 M. to 2:05A. M. Hr. 45 Min. (G) 817 P.S.I.

Initial Hydrostatic Pressure (A) 1144 P.S.I. Final Hydrostatic Pressure (H) 1123 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Fair thruout test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 510 feet salt water

Reversed Out Yes X No Mud Type Chem. Viscosity 41 Weight 9.9 Water Loss 10.5 cc. Maximum Temp. 109 °F

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

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 2035 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 120 ft.

I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 35 ft.

Remarks

8-24-56

WESTERN TESTING CO., INC.

Pressure Data

Date 11-27-71 Test Ticket No. 15682

Recorder No. 3351 Capacity 4000 Location 2183 Ft.

Clock No. 8474 Elevation 1475 Kelly Bushings Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1144 P.S.I.	Open Tool	11:50 P. M	
B First Initial Flow Pressure	8 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	119 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	826 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	136 P.S.I.	Final Closed-in Pressure	45 Mins.	44 Mins.
F Second Final Flow Pressure	205 P.S.I.			
G Final Closed-in Pressure	817 P.S.I.			
H Final Hydrostatic Mud	1123 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of _____ Min.

Point Mins.	Press.
P 1 0	8
P 2 5	30
P 3 10	58
P 4 15	74
P 5 20	90
P 6 25	106
P 7 30	119
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 _____ Min.

Point Minutes	Press.
0	119
3	761
6	778
9	791
12	798
15	804
18	810
21	815
24	818
27	821
30	826

Second Flow Pressure

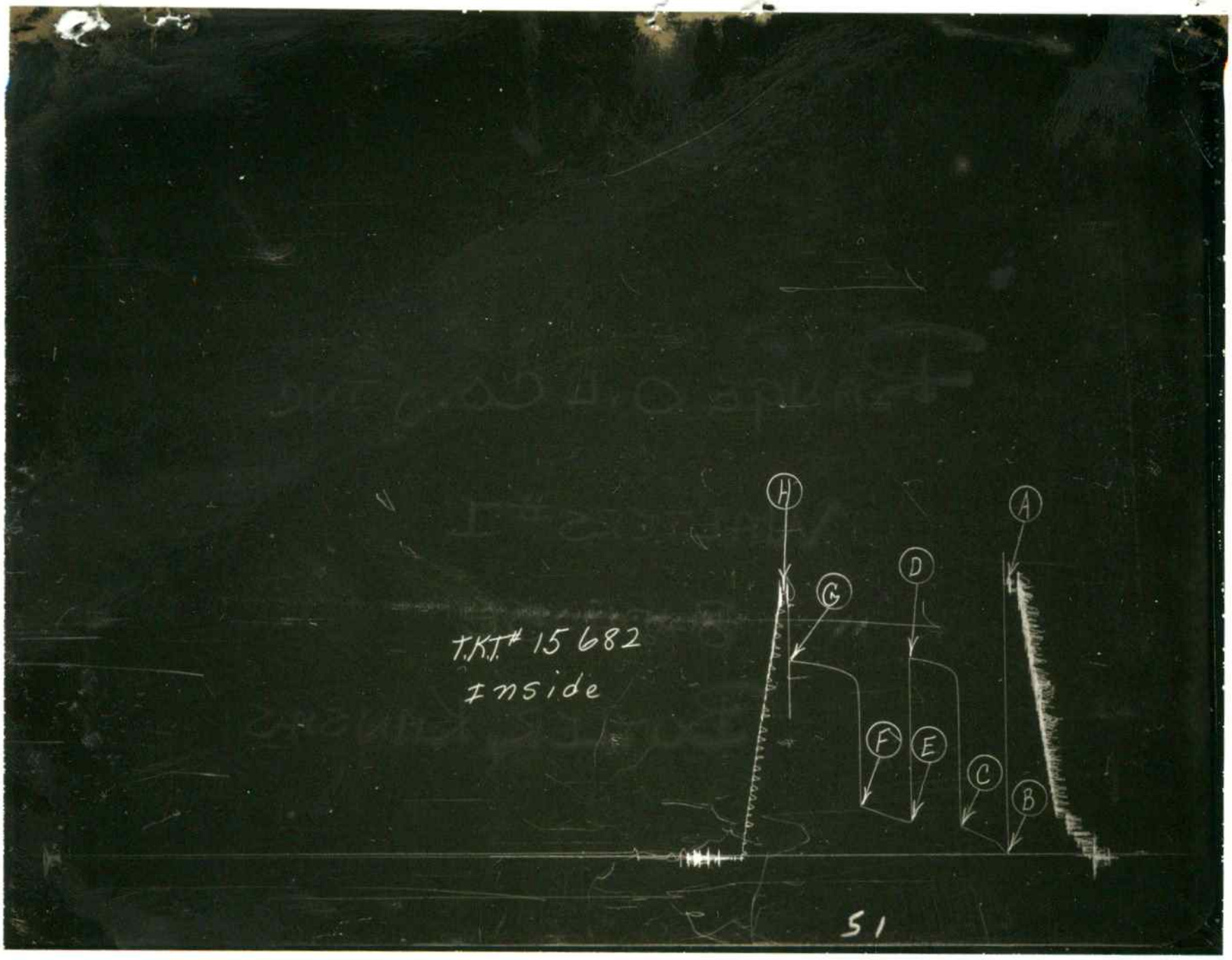
Breakdown: 6 Inc. of 5 mins. and a final inc. of _____ Min.

Point Minutes	Press.
0	136
5	141
10	152
15	164
20	176
25	191
30	205

Final Shut-In

Breakdown: 14 Inc. of 3 mins. and a final inc. of 2 Min.

Point Minutes	Press.
0	205
3	741
6	758
9	769
12	776
15	784
18	791
21	796
24	800
27	803
30	806
33	809
36	812
39	814
42	816
44	817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0-24-0E

WESTERN TESTERS

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

Company Range Oil Co., Inc. Lease & Well No. Walters #1

Elevation 1475 Kelly Bushings Formation Conglomerate Sand Effective Pay 8 Ft. Ticket No. 15683

Date 11-29-71 Sec. 8 Twp. 24S Range 5E County Butler State Kansas

Test Approved by R. B. Gebhart Jr. Western Representative Norman Allen

Formation Test No. 3 O.K. X Misrun ____ Interval Tested From 2429' to 2467' Total Depth 2467'

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

Packer Depth ____ Ft. Size ____ Packer Depth 2429 Ft. Size 6 3/4"

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

Packer Depth ____ Ft. Size ____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 38 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2460 Ft. Clock No. 8474 Depth 2463 Ft. Clock No. 10434

Top Make Kuster Cap. 4000 No. 3351 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 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 8:28 A.M.

Tool Open I.F.P. From 8:30 M. to 9:00A M. Hr. 30 Min. From (B) 13 P.S.I. To (C) 27 P.S.I.

Tool Closed I.C.I.P. From 89:00 M. to 9:30A M. Hr. 30 Min. (D) 773 P.S.I.

Tool Open F.F.P. From 9:30 M. to 11:00A M. Hr. 90 Min. From (E) 23 P.S.I. To (F) 39 P.S.I.

Tool Closed F.C.I.P. From 11:00 M. to 11:45A M. Hr. 45 Min. (G) 793 P.S.I.

Initial Hydrostatic Pressure (A) 1218 P.S.I. Final Hydrostatic Pressure (H) 1190 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak to very weak @ end of test Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 1 foot free oil (40° gravity corrected)

60 feet drilling mud

Reversed Out ____ Yes X No Mud Type Chem. Viscosity 41 Weight 9.8 Water Loss 10.8 cc. Maximum Temp. 109 °F

Type Circ. Sub. Pin Did Tool Plug? No Jars: Size ____ Make ____ Ser. No. ____

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? ____

Length Drill Pipe 2294 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ____ ft. I.D. Weight Pipe ____ in. Length Drill Collars 120 ft.

I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 53 ft.

Remarks DST #2-Missrun-Tool would not go to bottom (stopped 700' off bottom)

8-04-UE

WESTERN TESTING CO., INC.

Pressure Data

Date 11-29-71 Test Ticket No. 15683

Recorder No. 3351 Capacity 4000 Location 2460 Ft.

Clock No. 8474 Elevation 1475 Kelly Bushings Well Temperature 109 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1218	P.S.I.
B	First Initial Flow Pressure	13	P.S.I.
C	First Final Flow Pressure	27	P.S.I.
D	Initial Closed-in Pressure	773	P.S.I.
E	Second Initial Flow Pressure	23	P.S.I.
F	Second Final Flow Pressure	39	P.S.I.
G	Final Closed-in Pressure	793	P.S.I.
H	Final Hydrostatic Mud	1190	P.S.I.

	Time Given	Time Computed
Open Tool	8:28 A. M	
First Flow Pressure	30 Mins.	34 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	45 Mins.	45 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 4 Min.

Point	Mins.	Press.
P 1	0	13
P 2	5	13
P 3	10	14
P 4	15	14
P 5	20	15
P 6	25	15
P 7	30	23
P 8	34	27
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 Min.

Point Minutes	Press.
0	27
3	28
6	29
9	31
12	34
15	234
18	507
21	629
24	697
27	739
30	773

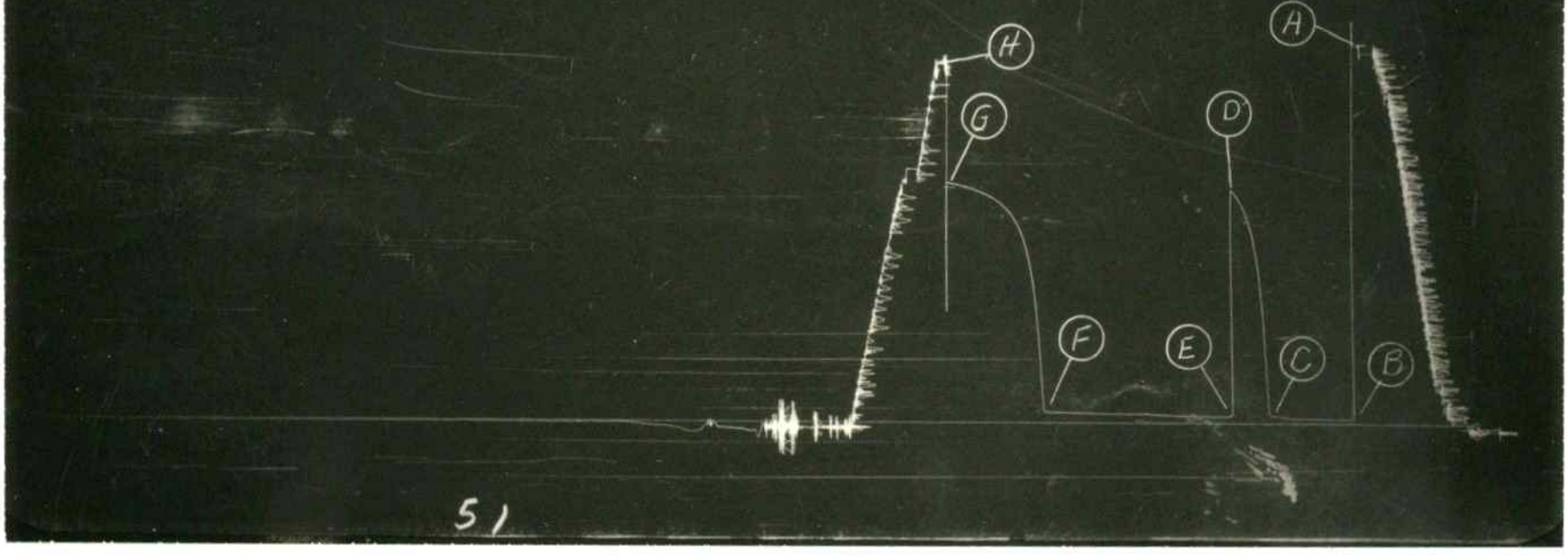
Second Flow Pressure
Breakdown: 18 Inc. of 5 mins. and a final inc. of Min.

Point Minutes	Press.
0	23
5	23
10	24
15	24
20	25
25	25
30	26
35	27
40	28
45	29
50	30
55	31
60	32
65	33
70	34
75	35
80	37
85	38
90	39

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of Min.

Point Minutes	Press.
0	39
3	317
6	501
9	601
12	655
15	687
18	713
21	732
24	745
27	755
30	765
33	772
36	778
39	784
42	788
45	793

TKT# 15683-I



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