Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Range Oil Company, Inc. Lease & Well No. Tabing #2

Elevation 1384 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. #24526

Date 11-15-76 Sec. 5 Twp. 28S Range 6E County Butler State Kansas

Test Approved by Robert G. Brooks Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun - Interval Tested From 2120' to 2130' Total Depth 2130'

Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No

Top Packer Depth 2115 Ft. Size 6 3/4 Bottom Packer Depth 2120 Ft. Size 6 3/4

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

Tool Size 4½ OD Tool Joint Size 3½ IF Anchor Length 10 Ft. Size 4½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2123 Ft. Clock No. 6892 Depth 2126 Ft. Clock No. 6800

Top Make Kuster Cap. 3150 No. 1564 Inside ~~Outside~~ Bottom Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside

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

Time Set Packer 9:28 P M

Tool Open I.F.P. From 9:30P M. to 10:00P M. - Hr. 30 Min. From (B) 17 P.S.I. To (C) 53 P.S.I.

Tool Closed I.C.I.P. From 10:00P M. to 10:30P M. - Hr. 30 Min (D) 672 P.S.I.

Tool Open F.F.P. From 10:30P M. to 11:30P M. - Hr. 60 Min. From (E) 101 P.S.I. To (F) 99 P.S.I.

Tool Closed F.C.I.P. From 11:30P M. to 12:30A M. - Hr. 60 Min. (G) 650 P.S.I.

Initial Hydrostatic Pressure (A) 1043 P.S.I. Final Hydrostatic Pressure (H) 1022 P.S.I. Maximum Temp. 96

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 870' gas in pipe. 165' muddy gas-cut oil. 45' slightly oil and mud-cut salt water.

Reversed Out - Yes X No Mud Type chem Viscosity 42 Weight 9.4 Water Loss 10. cc. Chlorides 1,800 P.P.M.

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

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR White & Ellis Drlg. Co. Length Drill Pipe? 1950 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2¼ In

Tool Joint Size 4H90 In. Length D.S.T. Tool 30 Ft.

Remarks:

165' muddy, gas-cut oil ground out. 80% oil & 20% mud.

Oil checked 38 gravity corrected.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-15-76 Test Ticket No. #24526

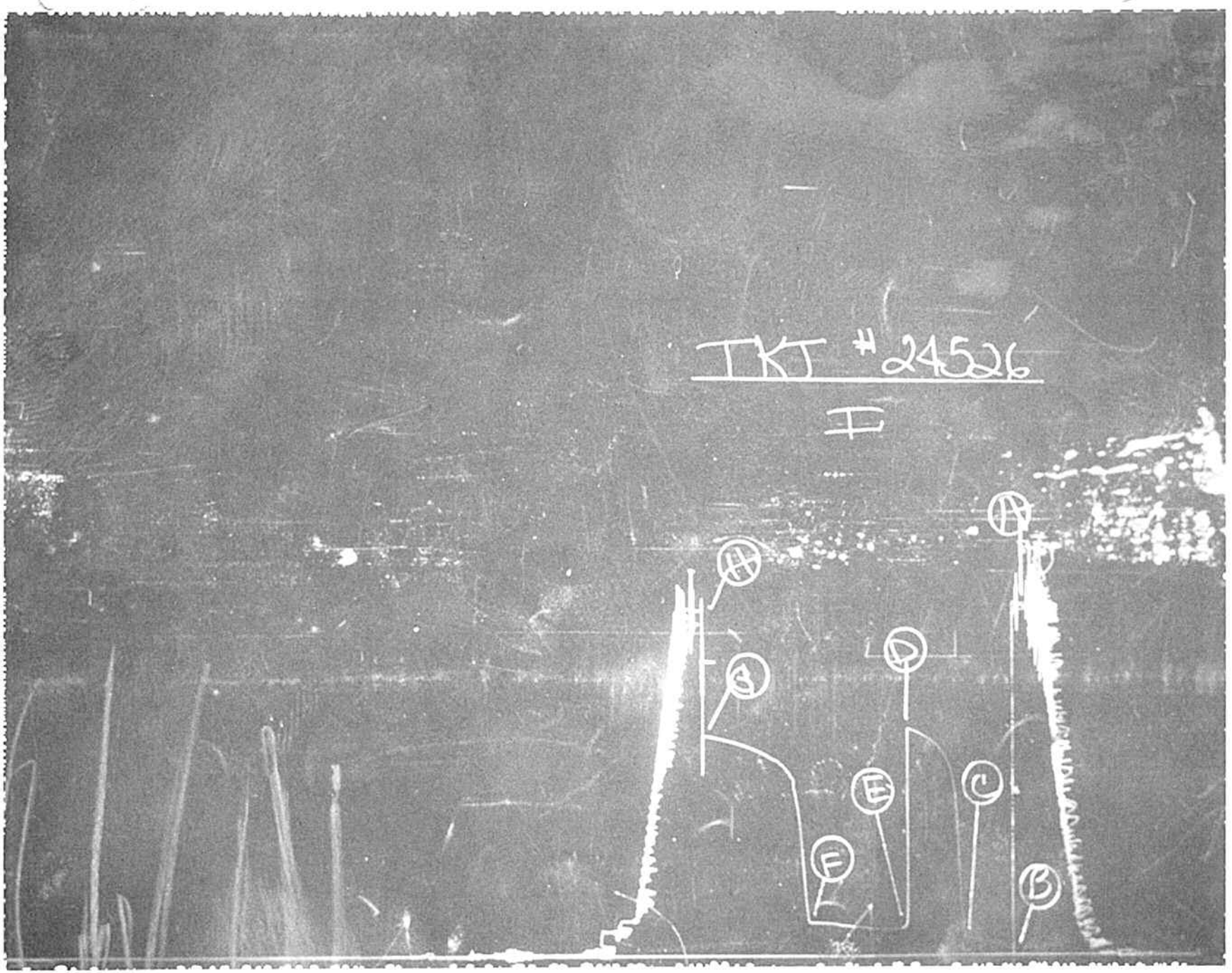
Recorder No. 1564 Capacity 3150 Location 2123 Ft.

Clock No. 6892 Elevation 1384 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1043 P.S.I.	Open Tool	9:28 P M	
B First Initial Flow Pressure	17 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	52 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	672 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	101 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	99 P.S.I.			
G Final Closed-in Pressure	650 P.S.I.			
H Final Hydrostatic Mud	1022 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 11 Inc.		Breakdown: 12 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	17	0	53	0	101	0	99
P 2 5	34	3	261	5	99	3	244
P 3 10	36	6	481	10	79	6	410
P 4 15	39	9	559	15	79	9	520
P 5 20	47	12	590	20	79	12	542
P 6 25	51	15	614	25	81	15	562
P 7 30	53	18	628	30	85	18	573
P 8		21	640	35	87	21	581
P 9		24	651	40	90	24	590
P10		27	679	45	95	27	600
P11		30	665	50	97	30	608
P12		33	672	55	98	33	614
P13				60	99	36	620
P14						39	625
P15						42	629
P16						45	634
P17						48	639
P18						51	643
P19						54	645
P20						57	648
						60	650


IKI #24526
F
A
B
C
D
E
F
G
H

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P. O. Box 1599 (316) 838-0601

Company Range Oil Company, Inc. Lease & Well No. Tabing #2

Elevation 1384 Kelly Bush. Formation Viola Effective Pay - Ft. Ticket No. 24558

Date 11-20-76 Sec. 5 Twp. 28S Range 6E County Butler State Kansas

Test Approved by Gerald B. Becker Western Representative Bill Baker

Formation Test No. 2 O.K. X Misrun - Interval Tested From 3094' to 3114' Total Depth 3114'

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

Top Packer Depth 3089 Ft. Size 6 3/4 Bottom Packer Depth 3094 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 20 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3107 Ft. Clock No. 6896 Depth 3110 Ft. Clock No. 6866

Top Make Kuster Cap. 3150 No. 1565 Inside ~~Outside~~ Bottom Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside

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

Time Set Packer 2:58A. M

Tool Open I.F.P. From 3:00A M. to 3:30A M. - Hr. 30 Min. From (B) 28 P.S.I. To (C) 157 P.S.I.

Tool Closed I.C.I.P. From 3:30A M. to 4:00A M. - Hr. 30 Min (D) 350 P.S.I.

Tool Open F.F.P. From 4:00A M. to 4:30A M. - Hr. 30 Min. From (E) 190 P.S.I. To (F) 238 P.S.I.

Tool Closed F.C.I.P. From 4:30A M. to 5:00A M. - Hr. 30 Min. (G) 351 P.S.I.

Initial Hydrostatic Pressure (A) 1542 P.S.I. Final Hydrostatic Pressure (H) 1507 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Fair blow increasing to a strong blow after 7 minutes on initial flow period. Strong blow throughout final flow period.

Did Well Flow - Yes X No Recovery Total Ft. 700' of muddy salt water

Reversed Out X Yes - No Mud Type Chem Viscosity 42 Weight 9.6 Water Loss 9.2 cc. Chlorides 1400 PPM

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

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR White & Ellis Drlg. Length Drill Pipe? 2971 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 143 Ft. I.D. Drill Collars 2 1/4 I

Tool Joint Size 4"H-90 In. Length D.S.T. Tool 40 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-20-76 Test Ticket No. 24558

Recorder No. 1565 Capacity 3150 Location 3107 Ft.

Clock No. 6896 Elevation 1384 Kelly Bushing Well Temperature 110 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1542	P.S.I.
B	First Initial Flow Pressure	28	P.S.I.
C	First Final Flow Pressure	157	P.S.I.
D	Initial Closed-in Pressure	350	P.S.I.
E	Second Initial Flow Pressure	190	P.S.I.
F	Second Final Flow Pressure	238	P.S.I.
G	Final Closed-in Pressure	351	P.S.I.
H	Final Hydrostatic Mud	1507	P.S.I.

	Time Given	Time Computed
Open Tool	2:58 M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	27 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	28		0	157		0	190		0	238
P 2	5	80		3	324		5	186		3	331
P 3	10	99		6	325		10	194		6	338
P 4	15	114		9	340		15	207		9	342
P 5	20	132		12	343		20	219		12	343
P 6	25	149		15	345		25	230		15	346
P 7	30	157		18	346		30	238		18	346
P 8				21	348					21	348
P 9				24	350					24	350
P10				27	350					27	350
P11										30	351
P12											
P13											
P14											
P15											
P16											
P17											
P18											
P19											
P20											

