P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

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

Elevation 1247 Kelly Bushing Formation Admire Effective Pay -- Ft. Ticket No. 1745

Date 10/28/78 Sec. 25 Twp. 32S Range 5E County Cowley State Kansas

Test Approved by Stephen M. Kreidler Western Representative Tim Wilson

Formation Test No. 1 Interval Tested from 535 ft. to 570 ft. Total Depth 570 ft.

Packer Depth 530 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 535 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 563 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 566 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Oil Company, Inc. Drill Collar Length 283 I. D. 2¼ in.

Mud Type chemical Viscosity 49 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss N.C. cc. Drill Pipe Length 234' I. D. 3.8 in.

Chlorides Unknown P.P.M. Test Tool Length 53' in. Tool Size 5½ in.

Jars: Make -- Serial Number - - Anchor Length 35 ft. Size 5½ in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 ½FH in.

Blow: Strong. Gas to surface in 12 minutes. See attached gas sheet for gas measurements.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:40 A.M. P.M. Time Started Off Bottom 5:45 A.M. P.M. Maximum Temperature 84

Initial Hydrostatic Pressure			(A)	249	P.S.I.	
Initial Flow Period	Minutes	30	(B)	46	P.S.I. to (C)	21 P.S.I.
Initial Closed In Period	Minutes	30	(D)	163	P.S.I.	
Final Flow Period	Minutes	30	(E)	54	P.S.I. to (F)	26 P.S.I.
Final Closed In Period	Minutes	30	(G)	201	P.S.I.	
Final Hydrostatic Pressure			(H)	206	P.S.I.	

Phone 316 262-5861
316 838-0601

WESTERN TESTING CO., INC.

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 10/28/78 Ticket 1745 Company Range Oil Company, Inc.

Well Name and No. Kindt #1 Dst No. 1 Interval Tested 535'-570'

County Cowley State Kansas Sec. 25 Twp. 32S Rg. 5E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Tool open 3?45A,			**PRE FLOW**			Gas to surface 12 minutes.
15 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
20 min.	2 Lbs.	of water	1/4" orifice			12,700 CFPD
25 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
30 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
			Tool shut-in 30 minutes.			
			SECOND FLOW			
0	2 lbs.	of water	1/4" orifice			12,700 CFPD
5 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
10 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
15 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
20 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
25 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
30 min.	2 lbs.	of water	1/4" orifice			12,700 CFPD
		Tool shut-in 30 minutes. Start out at 5:45 AM				

GAS BOTTLE

Serial No. 617 Date Bottle Filled 10/28/78 Date to be Invoiced 10/28/78

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Range Oil Company, Inc.

Authorized by Stephen M. Kreidler

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 10/28/78 Test Ticket No. 1745

Recorder No. 1559 Capacity 4200 Location 563 Ft.

Clock No. -- Elevation 1247 Kelly Bushing Well Temperature 84 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	249 P.S.I.	Open Tool	3:40A M	
B First Initial Flow Pressure	46 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	21 P.S.I.	Initial Closed-in Pressure	30 Mins.	28 Mins.
D Initial Closed-in Pressure	163 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	54 P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F Second Final Flow Pressure	26 P.S.I.			
G Final Closed-in Pressure	201 P.S.I.			
H Final Hydrostatic Mud	206 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	46
P 2 5	23
P 3 10	21
P 4 15	21
P 5 20	21
P 6 25	21
P 7 30	21
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	21
3	96
6	123
9	140
12	148
15	152
18	156
21	159
24	161
27	163

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

Point Minutes	Press.
0	54
5	36
10	31
15	30
20	29
25	27
30	26

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

Point Minutes	Press.
0	26
3	104
6	140
9	159
12	173
15	184
18	190
21	194
24	199
27	201

TBL # 1745
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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

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

Elevation 1247 Kelly Bushing Formation Layton Effective Pay -- Ft. Ticket No. 1746

Date 10/30/78 Sec. 25 Twp. 32S Range 5E County Cowley State Kansas

Test Approved by Stephen M. Kreidler Western Representative Tim Wilson

Formation Test No. 2 Interval Tested from 2252' ft. to 2270' ft. Total Depth 2270' ft.

Packer Depth 2247 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2252 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2263 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 2266 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Range Oil Company #1 Drill Collar Length 127 I. D. 2¼ in.

Mud Type chemical Viscosity 45 Weight Pipe Length -- I. D. -- in.

Weight 9.3 Water Loss N.C. cc. Drill Pipe Length 2106 I. D. 3.8 in.

Chlorides 900 P.P.M. Test Tool Length 37' in. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 18 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Weak increasing to strong thru decreasing slightly.

Recovered 50 ft. of watery drilling mud

Recovered 120 ft. of muddy water

Recovered 127 ft. of water

Recovered ft. of

Recovered 297 ft. of Total fluid.

Remarks:

Time Set Packer(s) 4:27 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 7:15 ~~A.M.~~ ~~P.M.~~ Maximum Temperature 102

Initial Hydrostatic Pressure ..... (A) 1096 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 13 P.S.I. to (C) 94 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 698 P.S.I.

Final Flow Period ..... Minutes 45 (E) 127 P.S.I. to (F) 171 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 714 P.S.I.

Final Hydrostatic Pressure ..... (H) 1071 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/30/78 Test Ticket No. 1746

Recorder No. 1559 Capacity 4200 Location 2263 Ft.

Clock No. -- Elevation 1247 Kelly Bushing Well Temperature 102 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1096 P.S.I.		Open Tool	4:27A M	
B	First Initial Flow Pressure	13 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	94 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	698 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	127 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	171 P.S.I.				
G	Final Closed-in Pressure	714 P.S.I.				
H	Final Hydrostatic Mud	1071 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	13
P 2 5	27
P 3 10	54
P 4 15	69
P 5 20	79
P 6 25	88
P 7 30	94
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 0 Min.

Point Minutes	Press.
0	94
3	504
6	592
9	627
12	652
15	666
18	679
21	685
24	691
27	695
30	698

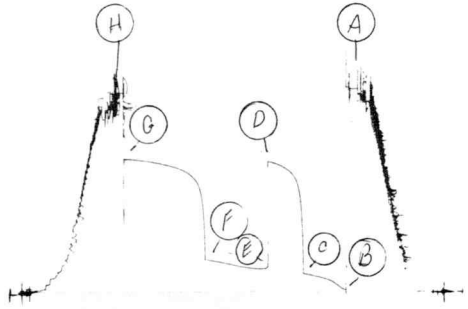
Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	127
5	119
10	123
15	132
20	138
25	150
30	155
35	161
40	171
45	

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	171
3	517
6	612
9	633
12	648
15	658
18	666
21	673
24	677
27	683
30	687
33	689
36	696
39	700
42	704
45	706
48	708
51	710
54	710
57	712
60	714

Test #1746
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1559

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

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

Elevation 1247 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 1747

Date 10/30/78 Sec. 25 Twp. 32S Range 5E County Cowley State Kansas

Test Approved by Stephen M. Kreidler Western Representative Tim Wilson

Formation Test No. 3 Interval Tested from 2438 ft. to 2449 ft. Total Depth 2449 ft.

Packer Depth 2433 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2438 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2442 ft. Recorder Number 1550 Cap. 4200

Bottom Recorder Depth (Outside) 2445 ft. Recorder Number 1558 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range Oil Company #1 Drill Collar Length 127 I. D. 2¼ in.

Mud Type chemical Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 11.2 cc. Drill Pipe Length 2292 I. D. 3.8 in.

Chlorides 2,100 P.P.M. Test Tool Length 30 Ft in. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 11 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Very weak increasing to weak.

Recovered 57 ft. of gas in pipe

Recovered 3 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:20 ~~A.M.~~ P.M. Time Started Off Bottom 11:35 ~~A.M.~~ P.M. Maximum Temperature 105

Initial Hydrostatic Pressure ..... (A) 1199 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 8 P.S.I. to (C) 8 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 155 P.S.I.

Final Flow Period ..... Minutes 30 (E) 31 P.S.I. to (F) 17 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 326 P.S.I.

Final Hydrostatic Pressure ..... (H) 1188 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/30/78 Test Ticket No. 1747

Recorder No. 1559 Capacity 4200 Location 2442 Ft.

Clock No. -- Elevation 1247 Kelly Bushing Well Temperature 105 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	1199	P.S.I.	Open Tool	9:20A	M		
B	First Initial Flow Pressure	8	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	8	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	155	P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E	Second Initial Flow Pressure	31	P.S.I.	Final Closed-in Pressure	45	Mins.	45	Mins.
F	Second Final Flow Pressure	17	P.S.I.					
G	Final Closed-in Pressure	326	P.S.I.					
H	Final Hydrostatic Mud	1188	P.S.I.					

PRESSURE BREAKDOWN

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

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

Point Minutes	Press.
0	8
3	17
6	27
9	40
12	50
15	65
18	82
21	94
24	113
27	132
30	155

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

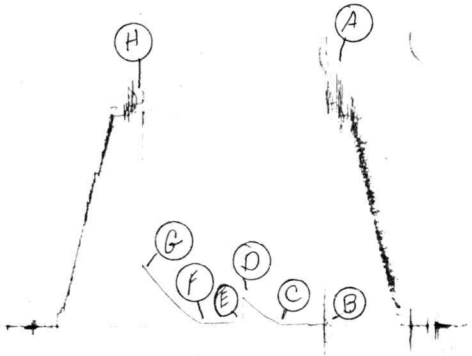
Point Minutes	Press.
0	31
5	19
10	17
15	17
20	17
25	17
30	17

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	17
3	23
6	38
9	52
12	69
15	88
18	109
21	127
24	148
27	171
30	196
33	219
36	245
39	270
42	301
45	326

WTC - 4

Job # 1747
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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

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

Elevation 1247 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 1761

Date 11/1/78 Sec. 25 Twp. 32S Range 5E County Cowley State Kansas

Test Approved by Stephen M. Kreidler Western Representative Will K. Hager

Formation Test No. 4 Interval Tested from 3025' ft. to 3045' ft. Total Depth 3045' ft.

Packer Depth 3020 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3025 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3035 ft. Recorder Number 1561 Cap. 3200

Bottom Recorder Depth (Outside) 3038 ft. Recorder Number 1564 Cap. 3150

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Co. #1 Drill Collar Length 120 I. D. 2¼ in.

Mud Type chemical Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.5+ Water Loss 12.0 cc. Drill Pipe Length 2884 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 40' in. Tool Size 5½ in.

Jars: Make - Serial Number - Anchor Length 20' ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Strong blow on both openings.

Recovered 295 ft. of gas in pipe

Recovered 30 ft. of heavy oil cut mud with a show of free oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:50 ~~A.M.~~ P.M. Time Started Off Bottom 9:50 ~~A.M.~~ P.M. Maximum Temperature 112

Initial Hydrostatic Pressure ..... (A) 1572 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 31 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 300 P.S.I.

Final Flow Period ..... Minutes 45 (E) 35 P.S.I. to (F) 33 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 322 P.S.I.

Final Hydrostatic Pressure ..... (H) 1540 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/1/78 Test Ticket No. 1761

Recorder No. 1561 Capacity 3200 Location 3035 Ft.

Clock No. -- Elevation 1247 Kelly Bushing Well Temperature 112 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1572	P.S.I.
B	First Initial Flow Pressure	31	P.S.I.
C	First Final Flow Pressure	22	P.S.I.
D	Initial Closed-in Pressure	300	P.S.I.
E	Second Initial Flow Pressure	35	P.S.I.
F	Second Final Flow Pressure	33	P.S.I.
G	Final Closed-in Pressure	322	P.S.I.
H	Final Hydrostatic Mud	1540	P.S.I.

	Time Given	Time Computed
Open Tool	5:50P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

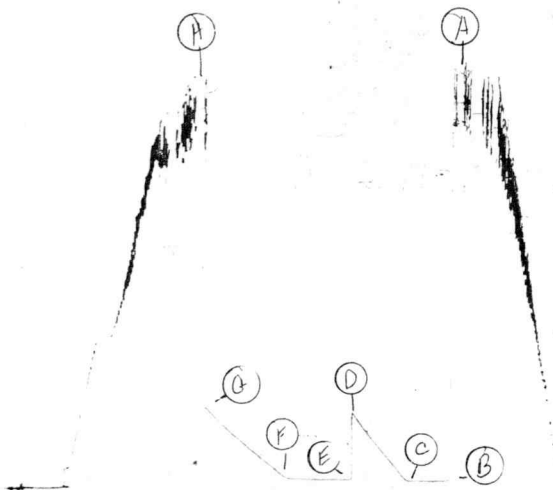
Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 20 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	31	0	22	0	35	0	33
P 2 5	24	3	25	5	28	3	41
P 3 10	22	6	39	10	28	6	52
P 4 15	22	9	57	15	28	9	69
P 5 20	22	12	82	20	28	12	83
P 6 25	22	15	100	25	28	15	96
P 7 30	22	18	121	30	28	18	108
P 8		21	138	35	28	21	121
P 9		24	155	40	31	24	135
P10		27	177	45	33	27	148
P11		30	199			30	162
P12		33	221			33	179
P13		36	242			36	192
P14		39	262			39	209
P15		42	286			42	221
P16		45	300			45	239
P17						48	253
P18						51	267
P19						54	284
P20						57	306
						60	322

TKL# 1261

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1561