

TKt # 2596
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Company Range Oil Company, Inc. Lease & Well No. Kliewer #1
 Elevation 1210 Kelly Bushing Formation Admire Effective Pay --- Ft. Ticket No. 2596
 Date 6/13/79 Sec. 16 Twp. 33S Range 4E County Cowley State Kansas
 Test Approved by Stephen M. Kreidler Western Representative James Rogers

Formation Test No. 1 Interval Tested from 708 ft. to 745 ft. Total Depth 745 ft.
 Packer Depth 703 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 708 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 739 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 742 ft. Recorder Number 1562 Cap. 3150
 Below Straddle Recorder Depth - ft. Recorder Number --- Cap. -

Drilling Contractor Range Oil Company Drill Collar Length 252 I. D. 2 1/4 in.
 Mud Type chemical Viscosity N/A Weight Pipe Length -- I. D. -- in.
 Weight N/A Water Loss N/A cc. Drill Pipe Length 436 I. D. 3.8 in.
 Chlorides 600 P.P.M. Test Tool Length 57 ft. Tool Size 4 1/2 OD in.
 Jars: Make -- Serial Number -- Anchor Length 37 ft. Size 4 1/2 OD 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 4 1/2 XH in.

Blow: Very weak. Died in 15 minutes.

Recovered 10 ft. of slighty oil cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of READ RECORDER #1562

Remarks:

Time Set Packer(s) 6:45 ~~A.M.~~ P.M. Time Started Off Bottom 8:45 ~~A.M.~~ P.M. Maximum Temperature 74
 Initial Hydrostatic Pressure (A) 328 P.S.I.
 Initial Flow Period Minutes 30 (B) 36 P.S.I. to (C) 28 P.S.I.
 Initial Closed In Period Minutes 15 (D) 33 P.S.I.
 Final Flow Period Minutes 30 (E) 28 P.S.I. to (F) 28 P.S.I.
 Final Closed In Period Minutes 30 (G) 28 P.S.I.
 Final Hydrostatic Pressure (H) 324 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

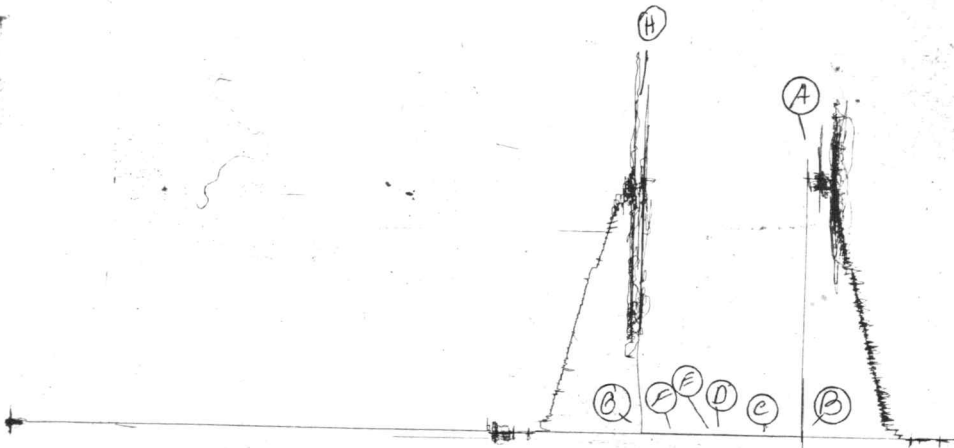
Date 6/13/79 Test Ticket No. 2596
 Recorder No. 1564 Capacity 3150 Location 739 Ft.
 Clock No. -- Elevation 1210 Kelly Bushing Well Temperature 74 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	328	P.S.I.	6:45P M	
B First Initial Flow Pressure	36	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	28	P.S.I.	30 Mins.	15 Mins.
D Initial Closed-in Pressure	33	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	28	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	28	P.S.I.		
G Final Closed-in Pressure	28	P.S.I.		
H Final Hydrostatic Mud	324	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
	final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>36</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>28</u>	<u>0</u>
P 2	<u>31</u>	<u>3</u>	<u>28</u>	<u>3</u>	<u>28</u>	<u>5</u>	<u>28</u>	<u>3</u>
P 3	<u>28</u>	<u>6</u>	<u>28</u>	<u>6</u>	<u>28</u>	<u>10</u>	<u>28</u>	<u>6</u>
P 4	<u>28</u>	<u>9</u>	<u>29</u>	<u>9</u>	<u>28</u>	<u>15</u>	<u>28</u>	<u>9</u>
P 5	<u>28</u>	<u>12</u>	<u>31</u>	<u>12</u>	<u>28</u>	<u>20</u>	<u>28</u>	<u>12</u>
P 6	<u>28</u>	<u>15</u>	<u>33</u>	<u>15</u>	<u>28</u>	<u>25</u>	<u>28</u>	<u>15</u>
P 7	<u>28</u>				<u>28</u>	<u>30</u>	<u>28</u>	<u>18</u>
P 8								<u>21</u>
P 9								<u>24</u>
P10								<u>27</u>
P11								<u>30</u>
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 2190
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Company Range Oil Company, Inc. Lease & Well No. Kliewer #1
 Elevation -- Formation Cattleman Effective Pay -- Ft. Ticket No. 2190
 Date 6/19/79 Sec. 16 Twp. 33S Range 4E County Cowley State Kansas
 Test Approved by Stephen M. Kreidler Western Representative James Rogers

Formation Test No. 2 Interval Tested from 3085 ft. to 3101 ft. Total Depth 3101 ft.
 Packer Depth 3080 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3085 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3094 ft. Recorder Number 3085 Cap. 4500
 Bottom Recorder Depth (Outside) 3097 ft. Recorder Number 1561 Cap. 3200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Oil Company Drill Collar Length 120 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 41 Weight Pipe Length - I. D. - in.
 Weight 9.7 Water Loss 8.5 cc. Drill Pipe Length 2945 I. D. 3.8 in.
 Chlorides P.P.M. Test Tool Length 36 ft. Tool Size 5 1/2 OD in.
 Jars: Make -- Serial Number -- Anchor Length 16 ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Very weak blow. Dead in 13 minutes. Second flow no blow.

Recovered ft. of Mud in top of tool
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: _____

Time Set Packer(s) 1:00 ~~==A.M.~~ P.M. Time Started Off Bottom 3:00 ~~-A.M.~~ P.M. Maximum Temperature ?
 Initial Hydrostatic Pressure (A) 1567 P.S.I.
 Initial Flow Period Minutes 30 (B) 2 P.S.I. to (C) 2 P.S.I.
 Initial Closed In Period Minutes 30 (D) 2 P.S.I.
 Final Flow Period Minutes 30 (E) 2 P.S.I. to (F) 2 P.S.I.
 Final Closed In Period Minutes 30 (G) 2 P.S.I.
 Final Hydrostatic Pressure (H) 1546 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6/19/79 Test Ticket No. 2190
 Recorder No. 3085 Capacity 4500 Location 3094 Ft.
 Clock No. -- Elevation -- Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1567	P.S.I.	1:00P	M
B. First Initial Flow Pressure	2	P.S.I.	30	30
C. First Final Flow Pressure	2	P.S.I.	30	30
D. Initial Closed-in Pressure	2	P.S.I.	30	30
E. Second Initial Flow Pressure	2	P.S.I.	30	30
F. Second Final Flow Pressure	2	P.S.I.	30	30
G. Final Closed-in Pressure	2	P.S.I.		
H. Final Hydrostatic Mud	1546	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	2	0	2	0	2	0
P 2	5	2	3	2	5	2	3
P 3	10	2	6	2	10	2	6
P 4	15	2	9	2	15	2	9
P 5	20	2	12	2	20	2	12
P 6	25	2	15	2	25	2	15
P 7	30	2	18	2	30	2	18
P 8			21	2			21
P 9			24	2			24
P10			27	2			27
P11			30	2			30
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							