



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

Company Range Oil Company, Inc. Lease & Well No. mucl 74
Elevation 1242 Kelly Bushing Formation Council Grove Effective Pay - Ft. Ticket No. #24528
Date 12-1-76 Sec. 27 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Robert G. Brooks Western Representative Bill Baker
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 200' to 260' Total Depth 260'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 195 Ft. Size 6 3/4 Bottom Packer Depth 200 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 60 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 227 Ft. Clock No. 6892 Depth 230 Ft. Clock No. 6800
Top Make Kuster Cap. 4200 No. 1558 Inside ☐ Outside ☒ Bottom Make Kuster Cap. 3150 No. 1564 Inside ☐ Outside ☒
Below Straddle: Depth - Rec. No. - Clock No. - Inside ☐ Outside ☐ Depth - Ft. Rec. No. - Clock No. - Inside ☐ Outside ☐
Time Set Packer 10:25 P M
Tool Open I.F.P. From 10:30P M. to 11:00P M. - Hr. 30 Min. From (B) 43 P.S.I. To (C) 39 P.S.I.
Tool Closed I.C.I.P. From 11:00P M. to 11:30P M. - Hr. 30 Min (D) 47 P.S.I.
Tool Open F.F.P. From 11:30P M. to 12:00A M. - Hr. 30 Min. From (E) 47 P.S.I. To (F) 57 P.S.I.
Tool Closed F.C.I.P. From 12:00AM to 12:30A M. - Hr. 30 Min. (G) 89 P.S.I.
Initial Hydrostatic Pressure (A) 102 P.S.I. Final Hydrostatic Pressure (H) 97 P.S.I. Maximum Temp. 60

INFORMATION

BLOW Very weak blow throughout test after open ten minutes.

Did Well Flow - Yes X No Recovery Total Ft. 130' drilling mud.

Reversed Out ☐ Yes ☒ No Mud Type chem Viscosity 35 Weight 8.6 Water Loss ☐ cc. Chlorides ☐

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 #4 Length Drill Pipe? 30 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars 265 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 80 Ft.

Remarks:

Read outside recorder.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-1-76 Test Ticket No. #24528
 Recorder No. 1564 Capacity 4200 Location 227 Ft.
 Clock No. 6800 Elevation 1242 Kelly Bushing Well Temperature 60 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>102</u> P.S.I.	Open Tool	<u>10:25</u> P M	
B First Initial Flow Pressure	<u>43</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>39</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>47</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>47</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
F Second Final Flow Pressure	<u>57</u> P.S.I.			
G Final Closed-in Pressure	<u>89</u> P.S.I.			
H Final Hydrostatic Mud	<u>97</u> 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>8</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 <u>0</u>	<u>43</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>57</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>49</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>91</u>
P 3 <u>10</u>	<u>39</u>	<u>6</u>	<u>47</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>89</u>
P 4 <u>15</u>	<u>39</u>	<u>9</u>	<u>46</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>89</u>
P 5 <u>20</u>	<u>39</u>	<u>12</u>	<u>46</u>	<u>20</u>	<u>57</u>	<u>12</u>	<u>89</u>
P 6 <u>25</u>	<u>39</u>	<u>15</u>	<u>47</u>	<u>25</u>	<u>57</u>	<u>15</u>	<u>89</u>
P 7 <u>30</u>	<u>39</u>	<u>18</u>	<u>47</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>89</u>
P 8		<u>21</u>	<u>47</u>			<u>21</u>	<u>89</u>
P 9		<u>24</u>	<u>47</u>			<u>24</u>	<u>89</u>
P10		<u>27</u>	<u>47</u>				
P11		<u>30</u>	<u>47</u>				
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT #24528

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H G F E D C B A



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

Company Range Oil Company, Inc. Lease & Well No. Muret #4
Elevation 1142 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. #24529
Date 12-4-76 Sec. 27 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Robert Brooks Western Representative Norman Allen
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 2272' to 2293' Total Depth 2293'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 2267 Ft. Size 6 3/4 Bottom Packer Depth 2272 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 21 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2286 Ft. Clock No. 6800 Depth 2289 Ft. Clock No. 6892
Top Make Kuster Cap. 4200 No. 1558 ☒ Inside ☐ Outside Bottom Make Kuster Cap. 3150 No. 1564 ☒ Inside ☐ Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ☒ Inside ☐ Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ☒ Inside ☐ Outside
Time Set Packer 11:58 A M
Tool Open I.F.P. From 12:00A M. to 12:30P M. - Hr. 30 Min. From (B) 34 P.S.I. To (C) 28 P.S.I.
Tool Closed I.C.I.P. From 12:30P M. to 1:00P M. - Hr. 30 Min (D) 221 P.S.I.
Tool Open F.F.P. From 1:00P M. to 2:00P M. - Hr. 60 Min. From (E) 51 P.S.I. To (F) 48 P.S.I.
Tool Closed F.C.I.P. From 2:00PM to 3:00P M. - Hr. 60 Min. (G) 575 P.S.I.
Initial Hydrostatic Pressure (A) 1259 P.S.I. Final Hydrostatic Pressure (H) 1259 P.S.I. Maximum Temp. 101

INFORMATION

BLOW Weak steady blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 180' gas in pipe. 25' gas-cut mud.
40' heavy oil and gas-cut mud.

Reversed Out - Yes ☒ No ☐ Mud Type chem Viscosity 44 Weight 9.5 Water Loss 10.8 cc. Chlorides 2,200 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 Drilling Length Drill Pipe? 2102 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars 150 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 12-4-76 Test Ticket No. #24529
 Recorder No. 1558 Capacity 4200 Location 2286 Ft.
 Clock No. 6800 Elevation 1142 Kelly Bushing Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1259</u> P.S.I.	Open Tool	<u>11:58 A</u> M	
B First Initial Flow Pressure	<u>34</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>28</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>221</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>48</u> P.S.I.			
G Final Closed-in Pressure	<u>575</u> P.S.I.			
H Final Hydrostatic Mud	<u>1259</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>34</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>34</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>51</u>
P 3 <u>10</u>	<u>25</u>	<u>6</u>	<u>40</u>	<u>10</u>	<u>37</u>	<u>6</u>	<u>59</u>
P 4 <u>15</u>	<u>25</u>	<u>9</u>	<u>51</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>72</u>
P 5 <u>20</u>	<u>26</u>	<u>12</u>	<u>65</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>86</u>
P 6 <u>25</u>	<u>27</u>	<u>15</u>	<u>89</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>103</u>
P 7 <u>30</u>	<u>28</u>	<u>18</u>	<u>124</u>	<u>30</u>	<u>38</u>	<u>18</u>	<u>124</u>
P 8		<u>21</u>	<u>158</u>	<u>35</u>	<u>36</u>	<u>21</u>	<u>150</u>
P 9		<u>24</u>	<u>205</u>	<u>40</u>	<u>39</u>	<u>24</u>	<u>179</u>
P10		<u>27</u>	<u>221</u>	<u>45</u>	<u>40</u>	<u>27</u>	<u>211</u>
P11				<u>50</u>	<u>44</u>	<u>30</u>	<u>247</u>
P12				<u>55</u>	<u>45</u>	<u>33</u>	<u>281</u>
P13				<u>60</u>	<u>48</u>	<u>36</u>	<u>319</u>
P14						<u>39</u>	<u>357</u>
P15						<u>42</u>	<u>390</u>
P16						<u>45</u>	<u>426</u>
P17						<u>48</u>	<u>460</u>
P18						<u>51</u>	<u>489</u>
P19						<u>54</u>	<u>519</u>
P20						<u>57</u>	<u>46</u>
						<u>60</u>	<u>575</u>

TKT #24529

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