

Company Range Oil Company, Inc. Lease & Well No. #3 "A" Simmons

Elevation 1330 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 13927

Date 10/5/82 Sec. 28 Twp. 27S Range 6E County Butler State Kansas

Test Approved by Tim J. Lauer Western Representative W. Allen Edgington

Formation Test No. 1 Interval Tested from 2048 ft. to 2060 ft. Total Depth 2060 ft.

Packer Depth 2043 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2048 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2051 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2055 ft. Recorder Number 3354 Cap. 4200

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

Drilling Contractor Range Drlg. Rig #2 Drill Collar Length 155 I. D. 2 3/4 in.

Mud Type chemical Viscosity 40 Weight Pipe Length 794 I. D. 2 3/4 in.

Weight 9.4 Water Loss - cc. Drill Pipe Length 1108 I. D. 3.8 in.

Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 5 in.

Jars: Make - Serial Number - Anchor Length 12 ft. Size 5 in.

Did Well Flow? No Reversed Out - 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: Fair throughout test.

Recovered 30 ft. of gas in pipe (Five inches in water)

Recovered 60 ft. of oil and gas cut mud 40% oil

Recovered 90 ft. of muddy water Chlorides 105,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:45 A.M. Time Started Off Bottom 10:45 A.M. Maximum Temperature 98°

Initial Hydrostatic Pressure 1036 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 36 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period 27 Minutes (D) 607 P.S.I.

Final Flow Period 60 Minutes (E) 71 P.S.I. to (F) 93 P.S.I.

Final Closed In Period 57 Minutes (G) 634 P.S.I.

Final Hydrostatic Pressure 1026 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 10/5/82 Test Ticket No. 13927

Recorder No. 5666 Capacity 3950 Location 2051 Ft.

Clock No. -- Elevation 1330 Kelly Bushing Well Temperature 98 Est. °F

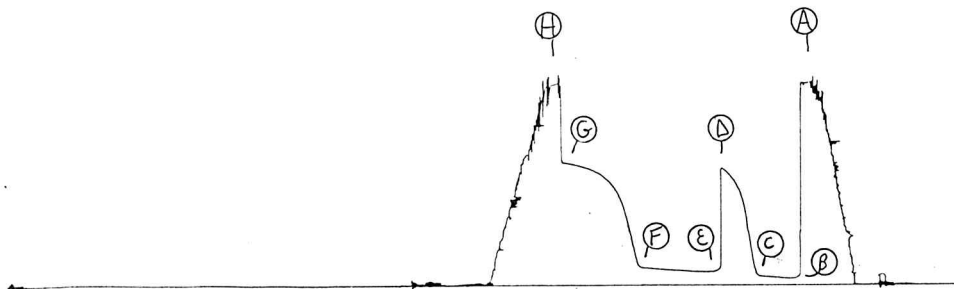
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1036</u> P.S.I.	Open Tool	<u>7:45P</u>	<u>M</u>
B First Initial Flow Pressure	<u>36</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>52</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>607</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>71</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>93</u> P.S.I.			
G Final Closed-in Pressure	<u>634</u> P.S.I.			
H Final Hydrostatic Mud	<u>1026</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>19</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>36</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>93</u>
P 2 <u>5</u>	<u>36</u>	<u>3</u>	<u>98</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>166</u>
P 3 <u>10</u>	<u>37</u>	<u>6</u>	<u>222</u>	<u>10</u>	<u>71</u>	<u>6</u>	<u>253</u>
P 4 <u>15</u>	<u>40</u>	<u>9</u>	<u>348</u>	<u>15</u>	<u>71</u>	<u>9</u>	<u>340</u>
P 5 <u>20</u>	<u>43</u>	<u>12</u>	<u>449</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>414</u>
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>504</u>	<u>25</u>	<u>76</u>	<u>15</u>	<u>467</u>
P 7 <u>30</u>	<u>52</u>	<u>18</u>	<u>545</u>	<u>30</u>	<u>78</u>	<u>18</u>	<u>501</u>
P 8		<u>21</u>	<u>566</u>	<u>35</u>	<u>80</u>	<u>21</u>	<u>528</u>
P 9		<u>24</u>	<u>589</u>	<u>40</u>	<u>82</u>	<u>24</u>	<u>550</u>
P10		<u>27</u>	<u>607</u>	<u>45</u>	<u>85</u>	<u>27</u>	<u>568</u>
P11				<u>50</u>	<u>88</u>	<u>30</u>	<u>582</u>
P12				<u>55</u>	<u>91</u>	<u>33</u>	<u>591</u>
P13				<u>60</u>	<u>93</u>	<u>36</u>	<u>601</u>
P14						<u>39</u>	<u>608</u>
P15						<u>42</u>	<u>615</u>
P16						<u>45</u>	<u>620</u>
P17						<u>48</u>	<u>624</u>
P18						<u>51</u>	<u>629</u>
P19						<u>54</u>	<u>632</u>
P20						<u>57</u>	<u>634</u>

TKT # 13927

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Company Range Oil Company, Inc. Lease & Well No. #3 "A" Simmons
Elevation 1330 Kelly Bushing Formation Viola Effective Pay -- Ft. Ticket No. 16693
Date 10/8/82 Sec. 28 Twp. 27S Range 6E County Butler State Kansas
Test Approved by Tim J. Lauer Western Representative Kenny Kirkendall

Formation Test No. 2 Interval Tested from 3025 ft. to 3029 ft. Total Depth 3029 ft.

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

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

Depth of Selective Zone Set -

Top Recorder Depth (Inside) AP 3015 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3026 ft. Recorder Number 1049 Cap. 4250

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

Drilling Contractor Range Drlg. Rig #1 Drill Collar Length 150 I. D. - in.

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

Weight 10 Water Loss 11.2 cc. Drill Pipe Length - I. D. - in.

Chlorides 1,600 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 4 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out - 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: No blow - flushed to good surge - No blow.

Recovered 40 ft. of free oil

Recovered 40 ft. of oil cut mud (slight) 5% oil

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 7:50 A.M. P.M. Time Started Off Bottom 9:50 A.M. P.M. Maximum Temperature 108°

Initial Hydrostatic Pressure (A) 1607 P.S.I.

Initial Flow Period 30 Minutes (B) 41 P.S.I. to (C) 45 P.S.I.

Initial Closed In Period 30 Minutes (D) 96 P.S.I.

Final Flow Period 30 Minutes (E) 96 P.S.I. to (F) 64 P.S.I.

Final Closed In Period 30 Minutes (G) 94 P.S.I.

Final Hydrostatic Pressure (H) 1563 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/8/82 Test Ticket No. 16693
Recorder No. 2605 Capacity 4150 Location 3015 Ft. 108
Clock No. -- Elevation 1330 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1607 P.S.I.	Open Tool	7:50A	M
B First Initial Flow Pressure	41 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	45 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	96 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	96 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	64 P.S.I.			
G Final Closed-in Pressure	94 P.S.I.			
H Final Hydrostatic Mud	1563 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 <u>0</u>	<u>41</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>64</u>
P 2 <u>5</u>	<u>41</u>	<u>3</u>	<u>70</u>	<u>5</u>	<u>64</u>	<u>3</u>	<u>72</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>81</u>	<u>10</u>	<u>64</u>	<u>6</u>	<u>83</u>
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>89</u>	<u>15</u>	<u>64</u>	<u>9</u>	<u>86</u>
P 5 <u>20</u>	<u>42</u>	<u>12</u>	<u>93</u>	<u>20</u>	<u>64</u>	<u>12</u>	<u>89</u>
P 6 <u>25</u>	<u>43</u>	<u>15</u>	<u>95</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>92</u>
P 7 <u>30</u>	<u>45</u>	<u>18</u>	<u>96</u>	<u>30</u>	<u>64</u>	<u>18</u>	<u>93</u>
P 8		<u>21</u>	<u>96</u>			<u>21</u>	<u>94</u>
P 9		<u>24</u>	<u>96</u>			<u>24</u>	<u>94</u>
P10		<u>27</u>	<u>96</u>			<u>27</u>	<u>94</u>
P11		<u>30</u>	<u>96</u>			<u>30</u>	<u>94</u>
P12							
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TKT # 16693

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