



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

Company Braden Petroleum Co. Lease & Well No. Hill #1

Elevation 1184 Kelly Bushing Formation Layton Effective Pay - Ft. Ticket No. 21859

Date 4-4-77 Sec. 7 Twp. 33S Range 7W County Cowley State Kansas

Test Approved by Robert L. Braden Western Representative Bill Baker

Formation Test No. 1 O.K.  Misrun  Interval Tested From 1882' to 1895' Total Depth 1895'

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

Top Packer Depth - Ft. Size - Bottom Packer Depth 1882 Ft. Size 6 3/4

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

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 13 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1888 Ft. Clock No. 10167 Depth 1891 Ft. Clock No. 8474

Top Make Kuster Cap. 3150 No. 1565 ~~Outside~~ <sup>Inside</sup> Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ <sup>Outside</sup>

Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ <sup>Inside</sup> Depth - Ft. Rec. No. - Clock No. - ~~Outside~~ <sup>Inside</sup>

Time Set Packer 1:28 P - M -

Tool Open I.F.P. From 1:30 PM to 2:00 PM - Hr. 30 Min. From (B) 13 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 2:00 PM to 2:30 PM - Hr. 30 Min (D) 75 P.S.I.

Tool Open F.F.P. From 2:30 PM to 3:30 PM 1 Hr. - Min. From (E) 28 P.S.I. To (F) 20 P.S.I.

Tool Closed F.C.I.P. From 3:30 M to 4:00 PM - Hr. 30 Min. (G) 69 P.S.I.

Initial Hydrostatic Pressure (A) 958 P.S.I. Final Hydrostatic Pressure (H) 939 P.S.I. Maximum Temp. 97

**INFORMATION**

BLOW Very weak blow died in 25 minutes in initial flow period. Very weak & intermittent throughout final flow period.

Did Well Flow  Yes  No Recovery Total Ft. 10' slightly oil & gas cut mud.

Reversed Out  Yes  No Mud Type chem Viscosity 44 Weight 9.3 Water Loss 11.2 cc. Chlorides 1,800 P.P.M.

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

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

DRILLING CONTRACTOR White & Ellis Length Drill Pipe? 811 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 IF In.

Length Weight Pipe 840 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 243 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 28 Ft.

Remarks:

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 4-4-77

Test Ticket No. 21859

Recorder No. 1565 Capacity 3150 Location 1888 Ft.

Clock No. 10167 Elevation 1184 Kelly Bushing Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>958</u> P.S.I.	Open Tool	<u>1:28</u> P M	
B First Initial Flow Pressure	<u>13</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>19</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>75</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>28</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>20</u> P.S.I.			
G Final Closed-in Pressure	<u>69</u> P.S.I.			
H Final Hydrostatic Mud	<u>939</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>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>13</u>	<u>0</u>	<u>19</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>20</u>
P 2 <u>5</u>	<u>14</u>	<u>3</u>	<u>22</u>	<u>5</u>	<u>20</u>	<u>3</u>	<u>22</u>
P 3 <u>10</u>	<u>14</u>	<u>6</u>	<u>24</u>	<u>10</u>	<u>20</u>	<u>6</u>	<u>27</u>
P 4 <u>15</u>	<u>14</u>	<u>9</u>	<u>29</u>	<u>15</u>	<u>20</u>	<u>9</u>	<u>31</u>
P 5 <u>20</u>	<u>15</u>	<u>12</u>	<u>34</u>	<u>20</u>	<u>20</u>	<u>12</u>	<u>37</u>
P 6 <u>25</u>	<u>15</u>	<u>15</u>	<u>41</u>	<u>25</u>	<u>20</u>	<u>15</u>	<u>41</u>
P 7 <u>30</u>	<u>19</u>	<u>18</u>	<u>48</u>	<u>30</u>	<u>20</u>	<u>18</u>	<u>48</u>
P 8		<u>21</u>	<u>56</u>	<u>35</u>	<u>20</u>	<u>21</u>	<u>52</u>
P 9		<u>24</u>	<u>63</u>	<u>40</u>	<u>20</u>	<u>24</u>	<u>58</u>
P10		<u>27</u>	<u>75</u>	<u>45</u>	<u>20</u>	<u>27</u>	<u>64</u>
P11				<u>50</u>	<u>20</u>	<u>30</u>	<u>69</u>
P12				<u>55</u>	<u>20</u>		
P13				<u>60</u>	<u>20</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TK#21859

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

Company Braden Petroleum Co. Lease & Well No. Hill #1  
 Elevation 1184 Kelly Bush. Formation Oswego Effective Pay - Ft. Ticket No. 21860  
 Date 4-6-77 Sec. 7 Twp. 33S Range 7W County Cowley State Kansas  
 Test Approved by Robert L. Braden Western Representative Bill Baker

Formation Test No. 2 O.K.  Misrun  Interval Tested From 2383' to 2431' Total Depth 2431'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 2378 Ft. Size 6 3/4 Bottom Packer Depth 2383 Ft. Size 6 3/4  
 Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Ft. Size -  
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 48 Ft. Size 5 1/2 OD & DP Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS  
 Depth 2397 Ft. Clock No. 10167 Depth 2400 Ft. Clock No. 8474  
 Top Make Kuster Cap. 3150 No. 1565 ~~Inside~~ Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 5:13A. M  
 Tool Open I.F.P. From 5:15A M. to 5:45A M. - Hr. 30 Min. From (B) 39 P.S.I. To (C) 33 P.S.I.  
 Tool Closed I.C.I.P. From 5:45A M. to 6:15A M. - Hr. 30 Min (D) 85 P.S.I.  
 Tool Open F.F.P. From 6:15A M. to 7:15A M. - Hr. 60 Min. From (E) 38 P.S.I. To (F) 36 P.S.I.  
 Tool Closed F.C.I.P. From 7:15A M. to 8:15A M. - Hr. 60 Min. (G) 124 P.S.I.  
 Initial Hydrostatic Pressure (A) 1227 P.S.I. Final Hydrostatic Pressure (H) 1220 P.S.I. Maximum Temp. 106

**INFORMATION**

Flow Weak increasing to a fair blow on initial flow period. Fair decreasing to a very weak blow during final flow period.  
 Did Well Flow - Yes  No  Recovery Total Ft. 30' of drilling mud with oil spots. 120' of gas in pipe.

Reversed Out - Yes  No  Mud Type Chem Viscosity 44 Weight 9.4 Water Loss 14.8 cc. Chlorides 2400 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. (#5) Length Drill Pipe? 1348 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 IF In.  
 Length Weight Pipe 840 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 243 Ft. I.D. Drill Collars 2 1/4 In.  
 Tool Joint Size 4" H-90 Length D.S.T. Tool 68 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 4-6-77

Test Ticket No. 21860

Recorder No. 1565 Capacity 3150 Location 2397 Ft.

Clock No. 10167 Elevation 1184 Kelly Bushing Well Temperature 106 °F

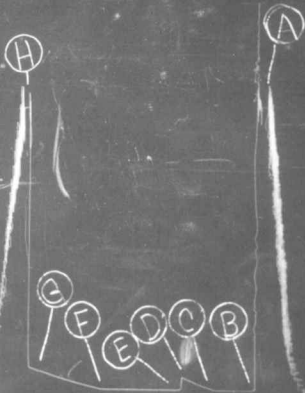
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1227</u> P.S.I.	Open Tool	<u>5:13</u> A M	
B First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>85</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>36</u> P.S.I.			
G Final Closed-in Pressure	<u>124</u> P.S.I.			
H Final Hydrostatic Mud	<u>1220</u> 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.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>39</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>36</u>	
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>37</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>38</u>	
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>43</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>42</u>	
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>49</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>46</u>	
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>54</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>49</u>	
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>60</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>53</u>	
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>67</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>58</u>	
P 8 _____	_____	<u>21</u>	<u>75</u>	<u>35</u>	<u>35</u>	<u>21</u>	<u>63</u>	
P 9 _____	_____	<u>24</u>	<u>80</u>	<u>40</u>	<u>35</u>	<u>24</u>	<u>67</u>	
P10 _____	_____	<u>27</u>	<u>85</u>	<u>45</u>	<u>35</u>	<u>27</u>	<u>71</u>	
P11 _____	_____	_____	_____	<u>50</u>	<u>35</u>	<u>30</u>	<u>77</u>	
P12 _____	_____	_____	_____	<u>55</u>	<u>36</u>	<u>33</u>	<u>80</u>	
P13 _____	_____	_____	_____	<u>60</u>	<u>36</u>	<u>36</u>	<u>85</u>	
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>91</u>	
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>96</u>	
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>100</u>	
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>107</u>	
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>110</u>	
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>118</u>	
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>122</u>	
						<u>60</u>	<u>124</u>	

TK#21860

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Company Braden Petroleum Co. Lease & Well No. Hill #1

Elevation 1184 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticker No. 21861

Date 4-7-77 Sec. 7 Twp. 33S Range 7W County Cowley State Kansas

Test Approved by Robert L. Braden Western Representative Bill Baker

Formation Test No. 3 O.K.  Misrun  Interval Tested From 2700' to 2730' Total Depth 2730'

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

Top Packer Depth 2695 Ft. Size 6 3/4 Bottom Packer Depth 2700 Ft. Size 6 3/4

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

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 30 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2707 Ft. Clock No. 10167 Depth 2710 Ft. Clock No. 8474

Top Make Kuster Cap. 3150 No. 1565 ~~Inside~~ Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside

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

Time Set Packer 7:13 A M

Tool Open I.F.P. From 7:15 AM. to 7:45 AM. - Hr. 30 Min. From (B) 81 P.S.I. To (C) 97 P.S.I.

Tool Closed I.C.I.P. From 7:45 AM. to 8:15 AM. - Hr. 30 Min (D) 899 P.S.I.

Tool Open F.F.P. From 8:15 AM. to 9:15 AM. 1 Hr. - Min. From (E) 108 P.S.I. To (F) 102 P.S.I.

Tool Closed F.C.I.P. From 9:15 M. to 9:45 AM. - Hr. 30 Min. (G) 761 P.S.I.

Initial Hydrostatic Pressure (A) 1404 P.S.I. Final Hydrostatic Pressure (H) 1399 P.S.I. Maximum Temp. 120

**INFORMATION**

BLOW Fair blow decreasing to a very weak blow on initial flow period. Very weak and decreasing blow increasing last 15 minutes on final flow period.

Did Well Flow - Yes  No  Recovery Total Ft. 180' total recovery. 60' slightly oil & gas cut mud, 60' oil & gas cut mud (10% oil, 90% mud) 60' heavy oil & gas cut mud (15% oil, 85% mud) 60' gas in pipe.

Reversed Out - Yes  No  Mud Type chem Viscosity 42 Weight 9.7 Water Loss 12.4 cc. Chlorides 4,800 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 #5 Length Drill Pipe? 1647 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 IF In.

Length Weight Pipe 840 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 243 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 50 Ft.

Remarks:

Read outside recorder #1561.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 4-7-77

Test Ticket No. 21861

Recorder No. 1561 Capacity 3200 Location 2710 Ft.

Clock No. 8474 Elevation 1184 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1404</u> P.S.I.	Open Tool	<u>7:13</u> A.M.	
B First Initial Flow Pressure	<u>81</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>97</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>899</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>108</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>102</u> P.S.I.			
G Final Closed-in Pressure	<u>761</u> P.S.I.			
H Final Hydrostatic Mud	<u>1399</u> 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.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>81</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>102</u>	
P 2 <u>5</u>	<u>83</u>	<u>3</u>	<u>152</u>	<u>5</u>	<u>97</u>	<u>3</u>	<u>126</u>	
P 3 <u>10</u>	<u>84</u>	<u>6</u>	<u>245</u>	<u>10</u>	<u>96</u>	<u>6</u>	<u>170</u>	
P 4 <u>15</u>	<u>85</u>	<u>9</u>	<u>363</u>	<u>15</u>	<u>96</u>	<u>9</u>	<u>221</u>	
P 5 <u>20</u>	<u>87</u>	<u>12</u>	<u>487</u>	<u>20</u>	<u>96</u>	<u>12</u>	<u>287</u>	
P 6 <u>25</u>	<u>92</u>	<u>15</u>	<u>580</u>	<u>25</u>	<u>98</u>	<u>15</u>	<u>373</u>	
P 7 <u>30</u>	<u>97</u>	<u>18</u>	<u>668</u>	<u>30</u>	<u>99</u>	<u>18</u>	<u>457</u>	
P 8 _____		<u>21</u>	<u>756</u>	<u>35</u>	<u>100</u>	<u>21</u>	<u>541</u>	
P 9 _____		<u>24</u>	<u>828</u>	<u>40</u>	<u>102</u>	<u>24</u>	<u>626</u>	
P10 _____		<u>27</u>	<u>871</u>	<u>45</u>	<u>102</u>	<u>27</u>	<u>692</u>	
P11 _____		<u>30</u>	<u>899</u>	<u>50</u>	<u>102</u>	<u>30</u>	<u>761</u>	
P12 _____				<u>55</u>	<u>102</u>			
P13 _____				<u>60</u>	<u>102</u>			
P14 _____								
P15 _____								
P16 _____								
P17 _____								
P18 _____								
P19 _____								
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