

Company McCoy Petroleum Company Lease & Well No. Bates B #1
Elevation 1399 Kelly Bushing Formation Mississippi Effective Pay == Ft. Ticket No. 1597
Date 2/27/79 Sec. 2 Twp. 34S Range 8W County Harper State Kansas
Test Approved by Robert McCann Western Representative Ron Emmons
Formation Test No. 1 Interval Tested from 4667 ft. to 4692 ft. Total Depth 4692 ft.
Packer Depth 4662 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4667 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 4672 ft. Recorder Number 3660 Cap. 4000
Bottom Recorder Depth (Outside) 4675 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sweetman Rig # 1 Drill Collar Length 279 I. D. 2 1/4 in.
Mud Type gel & premix Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 10.7 cc. Drill Pipe Length 4367 I. D. 3.8 in.
Chlorides ? P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 25' ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out Yes 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: _____

Recovered 2079 ft. of mud

Recovered _____ ft. of _____ MISRUN

Recovered _____ ft. of _____ READ #1051

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: (Opening tool going into hole about five times--slid tool 35 feet to bottom; hit bridge seven stands out.

Time Set Packer(s) 4:10 ~~AM~~ P.M. Time Started Off Bottom 4:45 ~~AM~~ P.M. Maximum Temperature 126

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

Initial Flow Period Minutes 15 (B) _____ P.S.I. to (C) _____ P.S.I.

Initial Closed In Period Minutes 15 (D) _____ P.S.I.

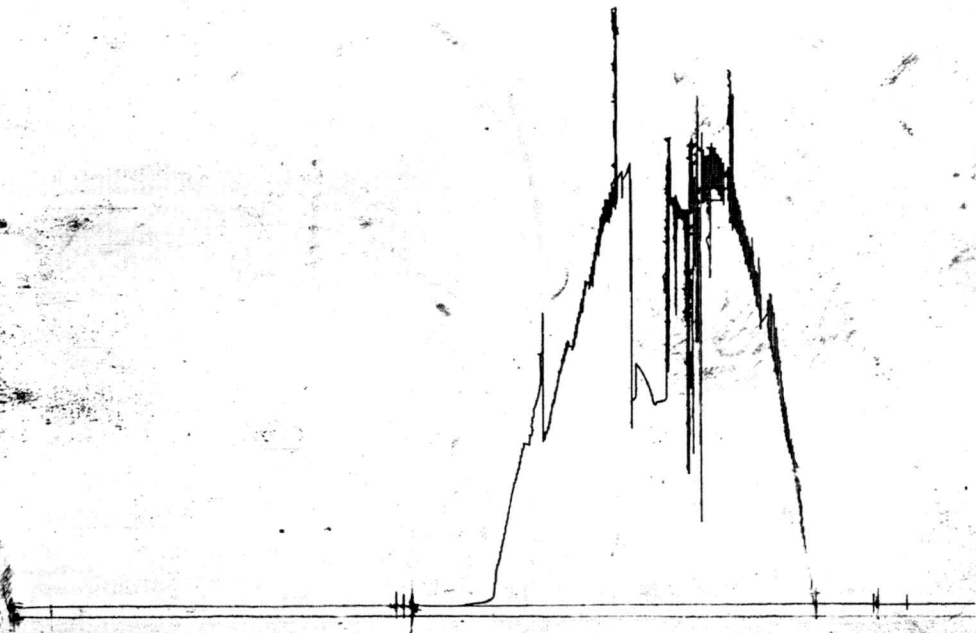
Final Flow Period Minutes 5 (E) _____ P.S.I. to (F) _____ P.S.I.

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

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

1051

Tkt # 1597
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Company McCoy Petroleum Company Lease & Well No. Bates "B" #1
Elevation 1395 Kelly Bushing Mississippi Effective Pay -- Ft. Ticket No. 1598
Date 2/28/79 Sec. 2 Twp. 34S Range 8W County Harper State Kansas
Test Approved by Robert E. McCann Western Representative Ron Emmons

Formation Test No. 2 Interval Tested from 4667 ft. to 4692' Total Depth 4692' ft.

Packer Depth 4662 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4667 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4672 ft. Recorder Number 3660 Cap. 4000

Bottom Recorder Depth (Outside) 4675 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Sweetman Rig #1 Drill Collar Length 279 I. D. 2 1/4 in.

Mud Type premix Viscosity 65 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 12.8 cc. Drill Pipe Length 4367 I. D. 3.8 in.

Chlorides ? P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 25' 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 XH in.

Blow: Fair to strong blow on first initial flow period. Weak blow on second opening.

Recovered 40 ft. of mud

Recovered 124 ft. of gas in pipe

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Slid tool 3 feet to bottom.

Time Set Packer(s) 7:03 A.M. --P.M. Time Started Off Bottom 10:18 A.M. --P.M. Maximum Temperature 126

Initial Hydrostatic Pressure (A) 2333 P.S.I.

Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period Minutes 42 (D) 87 P.S.I.

Final Flow Period Minutes 60 (E) 34 P.S.I. to (F) 34 P.S.I.

Final Closed In Period Minutes 60 (G) 105 P.S.I.

Final Hydrostatic Pressure (H) 2321 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/28/79 Recorder No. 3660 Capacity 4000 Test Ticket No. 1598
 Clock No. -- Elevation 1395 Kelly Bushing Location 4672 Ft. --
 Well Temperature 126 °F

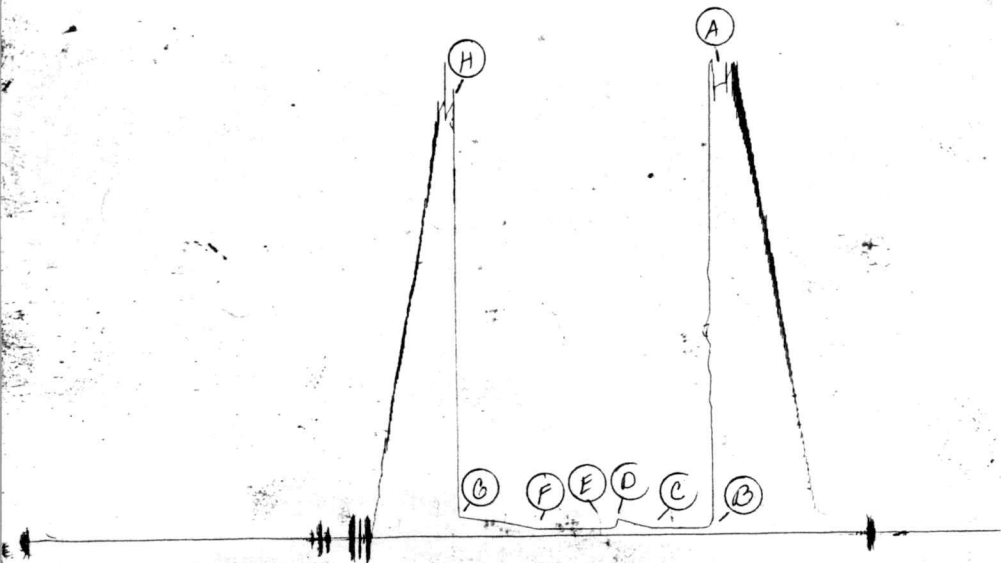
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2333	P.S.I.	7:03A	M
B First Initial Flow Pressure	31	P.S.I.	30	Mins. 30
C First Final Flow Pressure	34	P.S.I.	45	Mins. 42
D Initial Closed-in Pressure	87	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	34	P.S.I.	60	Mins. 60
F Second Final Flow Pressure	34	P.S.I.		
G Final Closed-in Pressure	105	P.S.I.		
H Final Hydrostatic Mud	2321	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</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>31</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>34</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>36</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>35</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>45</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>35</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>49</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>35</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>55</u>
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>36</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>59</u>
P 7 <u>30</u>	<u>34</u>	<u>18</u>	<u>43</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>65</u>
P 8		<u>21</u>	<u>49</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>67</u>
P 9		<u>24</u>	<u>53</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>71</u>
P10		<u>27</u>	<u>60</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>75</u>
P11		<u>30</u>	<u>67</u>	<u>50</u>	<u>34</u>	<u>30</u>	<u>79</u>
P12		<u>33</u>	<u>73</u>	<u>55</u>	<u>34</u>	<u>33</u>	<u>83</u>
P13		<u>36</u>	<u>79</u>	<u>60</u>	<u>34</u>	<u>36</u>	<u>85</u>
P14		<u>39</u>	<u>85</u>			<u>39</u>	<u>87</u>
P15		<u>42</u>	<u>87</u>			<u>42</u>	<u>87</u>
P16						<u>45</u>	<u>91</u>
P17						<u>48</u>	<u>95</u>
P18						<u>51</u>	<u>99</u>
P19						<u>54</u>	<u>101</u>
P20						<u>57</u>	<u>103</u>
						<u>60</u>	<u>105</u>

3660

TKT # 1598
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Company McCoy Petroleum Company Lease & Well No. Bates "B" # 1
 Elevation 1399 Kelly Bushing Mississippi Formation Mississippi Effective Pay == Ft. Ticket No. 1600
 Date 3/1/79 Sec. 2 Twp. 34S Range 8W County Harper State Kansas
 Test Approved by Robert E. McCann Western Representative Ron Emmons
 Formation Test No. 3 Interval Tested from 4692' ft. to 4762' ft. Total Depth 4762' ft.
 Packer Depth 4687 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4692 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 4695 ft. Recorder Number 3660 Cap. 4000
 Bottom Recorder Depth (Outside) 4698 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sweetman Rig # 1 Drill Collar Length 249 I. D. 2 1/4 in.
 Mud Type premix Viscosity 61 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 12 cc. Drill Pipe Length 4422 I. D. 3.8 in.
 Chlorides ? P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 OD in.
 Jars: Make -- Serial Number -- Anchor Length 70' 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 XH in.

Blow: Weak blow throughout flow periods.

Recovered 90 ft. of gas cut mud

Recovered 124 ft. of gas in pipe

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:11 A.M. Time Started Off Bottom 11:26 A.M. Maximum Temperature 130
 Initial Hydrostatic Pressure 2397 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 53 P.S.I. to (C) 53 P.S.I.
 Initial Closed In Period 45 Minutes (D) 128 P.S.I.
 Final Flow Period 60 Minutes (E) 59 P.S.I. to (F) 64 P.S.I.
 Final Closed In Period 60 Minutes (G) 190 P.S.I.
 Final Hydrostatic Pressure 2264 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 3/1/79

Test Ticket No. 1600

Recorder No. 3660 Capacity 4000 Location 4695 Ft.

Clock No. -- Elevation 1399 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2397	P.S.I.	8:11A	M
B First Initial Flow Pressure	53	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	53	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	128	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	59	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	64	P.S.I.		
G Final Closed-in Pressure	190	P.S.I.		
H Final Hydrostatic Mud	2264	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>53</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>64</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>55</u>	<u>5</u>	<u>59</u>	<u>3</u>	<u>71</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>61</u>	<u>10</u>	<u>59</u>	<u>6</u>	<u>77</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>67</u>	<u>15</u>	<u>59</u>	<u>9</u>	<u>85</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>72</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>89</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>77</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>99</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>83</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>109</u>
P 8		<u>21</u>	<u>89</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>120</u>
P 9		<u>24</u>	<u>95</u>	<u>40</u>	<u>63</u>	<u>24</u>	<u>132</u>
P10		<u>27</u>	<u>101</u>	<u>45</u>	<u>63</u>	<u>27</u>	<u>141</u>
P11		<u>30</u>	<u>109</u>	<u>50</u>	<u>63</u>	<u>30</u>	<u>150</u>
P12		<u>33</u>	<u>113</u>	<u>55</u>	<u>64</u>	<u>33</u>	<u>154</u>
P13		<u>36</u>	<u>117</u>	<u>60</u>	<u>64</u>	<u>36</u>	<u>158</u>
P14		<u>39</u>	<u>121</u>			<u>39</u>	<u>162</u>
P15		<u>42</u>	<u>125</u>			<u>42</u>	<u>166</u>
P16		<u>45</u>	<u>128</u>			<u>45</u>	<u>170</u>
P17						<u>48</u>	<u>174</u>
P18						<u>51</u>	<u>178</u>
P19						<u>54</u>	<u>182</u>
P20						<u>57</u>	<u>186</u>
						<u>60</u>	<u>190</u>

3660

TKT # 1600
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