

Company McCoy Petroleum Corporation Lease & Well No. Reed #1-15  
 Elevation ----- Formation Kansas City Effective Pay ----- Ft. Ticket No. 7586  
 Date 10/5/80 Sec. 15 Twp. 34S Range 14W County Barber State Kansas  
 Test Approved by Robert E. McCann Western Representative Stuart Stover

Formation Test No. 1 Interval Tested from 4644 ft. to 4700 ft. Total Depth 4700 ft.  
 Packer Depth 4639 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4644 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4649 ft. Recorder Number 11018 Cap. 4425  
 Bottom Recorder Depth (Outside) 4652 ft. Recorder Number 11019 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sweetman Drilling Drill Collar Length 248 I. D. 2 1/4 in.  
 Mud Type starch Viscosity 63 Weight Pipe Length - I. D. - in.  
 Weight 9.3 Water Loss 6.0 cc. Drill Pipe Length 4375 I. D. 4.0 in.  
 Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 3 1/2 in.  
 Jars: Make -- Serial Number - Anchor Length 56 ft. Size 4 1/2 in.  
 Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong on initial flow period. Final flow period strong decreasing to fair and back to strong every few minutes.

Recovered 10 ft. of gas cut mud (15% oil;5% water;80% mud)  
 Recovered 80 ft. of slight to medium oil and gas cut mud  
 Recovered 40 ft. of heavy oil and gas cut mud (75% oil;7% water;18% mud)  
 Recovered        ft. of         
 Recovered        ft. of       

Remarks: Gas to surface during final flow-in period.

Time Set Packer(s) 7:45 ~~A.M.~~ P.M. Time Started Off Bottom 11:00 ~~A.M.~~ P.M. Maximum Temperature 119°  
 Initial Hydrostatic Pressure ..... (A) 2619 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 58 P.S.I. to (C) 60 P.S.I.  
 Initial Closed In Period ..... Minutes 42 (D) 790 P.S.I.  
 Final Flow Period ..... Minutes 55 (E) 58 P.S.I. to (F) 69 P.S.I.  
 Final Closed In Period ..... Minutes 69 (G) 1115 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2380 P.S.I.

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

Date 10/5/80 Test Ticket No. 7586  
 Recorder No. 11018 Capacity 4425 Location 4649 Ft.  
 Clock No. -- Elevation ----- Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2619</u> P.S.I.	Open Tool	<u>7:45P</u> M	
B First Initial Flow Pressure	<u>58</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>60</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>790</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>58</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>69</u> Mins.
F Second Final Flow Pressure	<u>69</u> P.S.I.			
G Final Closed-in Pressure	<u>1115</u> P.S.I.			
H Final Hydrostatic Mud	<u>2380</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 14 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 11 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

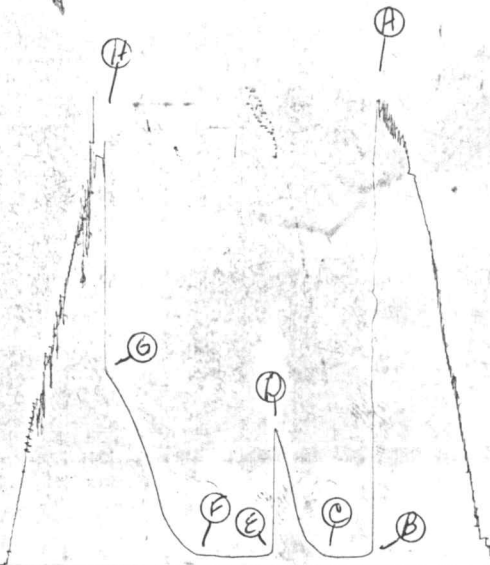
**Final Shut-In**  
 Breakdown: 23 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>58</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>69</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>82</u>
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>80</u>	<u>10</u>	<u>58</u>	<u>6</u>	<u>100</u>
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>102</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>118</u>
P 5 <u>20</u>	<u>58</u>	<u>12</u>	<u>120</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>140</u>
P 6 <u>25</u>	<u>58</u>	<u>15</u>	<u>142</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>167</u>
P 7 <u>30</u>	<u>60</u>	<u>18</u>	<u>173</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>193</u>
P 8 _____		<u>21</u>	<u>231</u>	<u>35</u>	<u>60</u>	<u>21</u>	<u>228</u>
P 9 _____		<u>24</u>	<u>302</u>	<u>40</u>	<u>64</u>	<u>24</u>	<u>269</u>
P10 _____		<u>27</u>	<u>391</u>	<u>45</u>	<u>67</u>	<u>27</u>	<u>324</u>
P11 _____		<u>30</u>	<u>496</u>	<u>50</u>	<u>68</u>	<u>30</u>	<u>400</u>
P12 _____		<u>33</u>	<u>595</u>	<u>55</u>	<u>69</u>	<u>33</u>	<u>489</u>
P13 _____		<u>36</u>	<u>666</u>			<u>36</u>	<u>562</u>
P14 _____		<u>39</u>	<u>750</u>			<u>39</u>	<u>633</u>
P15 _____		<u>42</u>	<u>790</u>			<u>42</u>	<u>699</u>
P16 _____						<u>45</u>	<u>768</u>
P17 _____						<u>48</u>	<u>832</u>
P18 _____						<u>51</u>	<u>881</u>
P19 _____						<u>54</u>	<u>927</u>
P20 _____						<u>57</u>	<u>971</u>
						<u>60</u>	<u>1015</u>
						<u>63</u>	<u>1053</u>
						<u>66</u>	<u>1082</u>
						<u>69</u>	<u>1115</u>

11018-7586

DKA # 7586

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Company McCoy Petroleum Corporation Lease & Well No. Reed #1-15  
 Elevation 1695 Kelly Bushing Mississippi Formation Effective Pay --- Ft. Ticket No. 6870  
 Date 10/6/80 Sec. 15 Twp. 34S Range 14W County Barber State Kansas  
 Test Approved by Robert E. McCann Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4832 ft. to 4870 ft. Total Depth 4870 ft.  
 Packer Depth 4827 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4832 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4837 ft. Recorder Number 2606 Cap. 4150  
 Bottom Recorder Depth (Outside) 4840 ft. Recorder Number 4332 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sweetman Drilling Drill Collar Length 321 I. D. 2 1/4 in.  
 Mud Type starch Viscosity 52 Weight Pipe Length - I. D. - in.  
 Weight 9.5 Water Loss 8 cc. Drill Pipe Length 4491 I. D. 3.8 in.  
 Chlorides ---- P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make No Serial Number - Anchor Length 38 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: Fair to good blow on initial flow period. (6" to 8" into water) Good blow on final flow (8" water) period. No gas to surface.

Recovered 10 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks: READ CHART #4332

Time Set Packer(s)	<u>2:15</u>	<u>A.M.</u>	Time Started Off Bottom	<u>5:30</u>	<u>A.M.</u>	Maximum Temperature	<u>126°</u>
Initial Hydrostatic Pressure		<u>P.M.</u>		<u>2667</u>	<u>P.S.I.</u>		
Initial Flow Period			Minutes <u>30</u>	<u>35</u>	<u>P.S.I. to (C)</u>	<u>35</u>	<u>P.S.I.</u>
Initial Closed In Period			Minutes <u>51</u>	<u>126</u>	<u>P.S.I.</u>		
Final Flow Period			Minutes <u>60</u>	<u>45</u>	<u>P.S.I. to (F)</u>	<u>45</u>	<u>P.S.I.</u>
Final Closed In Period			Minutes <u>69</u>	<u>437</u>	<u>P.S.I.</u>		
Final Hydrostatic Pressure				<u>2622</u>	<u>P.S.I.</u>		

WESTERN TESTING CO., INC.

Pressure Data

Date 10/6/80

Test Ticket No. 6870

Recorder No. 4332

Capacity 4200 Location 4840 Ft.

Clock No. -- Elevation 1695 Kelly Bushing Well Temperature 126° °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2667</u> P.S.I.	Open Tool	<u>2:15A</u> M	
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>51</u> Mins.
D Initial Closed-in Pressure	<u>126</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>45</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>69</u> Mins.
F Second Final Flow Pressure	<u>45</u> P.S.I.			
G Final Closed-in Pressure	<u>437</u> P.S.I.			
H Final Hydrostatic Mud	<u>2622</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>17</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>23</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>0</u>	<u>35</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>45</u>
P 2	<u>5</u>	<u>3</u>	<u>35</u>	<u>5</u>	<u>45</u>	<u>3</u>	<u>56</u>
P 3	<u>10</u>	<u>6</u>	<u>35</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>74</u>
P 4	<u>15</u>	<u>9</u>	<u>35</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>95</u>
P 5	<u>20</u>	<u>12</u>	<u>35</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>110</u>
P 6	<u>25</u>	<u>15</u>	<u>35</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>136</u>
P 7	<u>30</u>	<u>18</u>	<u>35</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>156</u>
P 8		<u>21</u>	<u>35</u>	<u>35</u>	<u>45</u>	<u>21</u>	<u>177</u>
P 9		<u>24</u>	<u>36</u>	<u>40</u>	<u>45</u>	<u>24</u>	<u>190</u>
P10		<u>27</u>	<u>43</u>	<u>45</u>	<u>45</u>	<u>27</u>	<u>214</u>
P11		<u>30</u>	<u>54</u>	<u>50</u>	<u>45</u>	<u>30</u>	<u>238</u>
P12		<u>33</u>	<u>58</u>	<u>55</u>	<u>45</u>	<u>33</u>	<u>253</u>
P13		<u>36</u>	<u>62</u>	<u>60</u>	<u>45</u>	<u>36</u>	<u>273</u>
P14		<u>39</u>	<u>71</u>			<u>39</u>	<u>288</u>
P15		<u>42</u>	<u>84</u>			<u>42</u>	<u>305</u>
P16		<u>45</u>	<u>95</u>			<u>45</u>	<u>323</u>
P17		<u>48</u>	<u>106</u>			<u>48</u>	<u>340</u>
P18		<u>51</u>	<u>126</u>			<u>51</u>	<u>353</u>
P19						<u>54</u>	<u>367</u>
P20						<u>57</u>	<u>385</u>
						<u>60</u>	<u>398</u>
						<u>63</u>	<u>413</u>
						<u>66</u>	<u>429</u>
						<u>69</u>	<u>437</u>

JKT #6870

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