

Company Davies & Company, Inc. Lease & Well No. H. J. Williams #1-23  
 Elevation 1223 Ground Level Elevation LeCompton Effective Pay ---- Ft. Ticket No. 5842  
 Date 7/25/80 Sec. 23 Twp. 27S Range 4E County Butler State Kansas  
 Test Approved by Tom Wesselowski Western Representative Fred G. Klaus

Formation Test No. 1 Interval Tested from 1310 ft. to 1390 ft. Total Depth 1390 ft.  
 Packer Depth 1310 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 1305 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1315 ft. Recorder Number 1559 Cap. 4200 PSI  
 Bottom Recorder Depth (Outside) 1318 ft. Recorder Number 1558 Cap. 4200 PSI  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R. R. A. Drilling Rig #1 Drill Collar Length 310 I. D. 2 3/4 in.  
 Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 14.4 cc. Drill Pipe Length 980 I. D. 3.8 in.  
 Chlorides 2,400 P.P.M. Test Tool Length 100 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 80 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 in.

Blow: Initial flow period weak blow building to fair blow. Final flow period weak blow.

Recovered 80 ft. of mud  
 Recovered 290 ft. of muddy water (72,000 chlorides ppm)  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks:     

Time Set Packer(s) 4:15 ~~A.M.~~ P.M. Time Started Off Bottom 7:45 ~~A.M.~~ P.M. Maximum Temperature 87°  
 Initial Hydrostatic Pressure (A) 693 P.S.I.  
 Initial Flow Period Minutes 60 (B) 60 P.S.I. to (C) 155 P.S.I.  
 Initial Closed In Period Minutes 60 (D) 452 P.S.I.  
 Final Flow Period Minutes 45 (E) 242 P.S.I. to (F) 192 P.S.I.  
 Final Closed In Period Minutes 54 (G) 452 P.S.I.  
 Final Hydrostatic Pressure (H) 668 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7/25/80 Test Ticket No. 5842  
 Recorder No. 1559 Capacity 4200 Location 1315 Ft.  
 Clock No. - Elevation 1233 Ground Level Well Temperature 87 °F

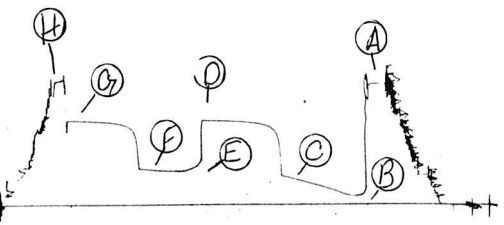
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	692	P.S.I.	4:15P	M
B First Initial Flow Pressure	60	P.S.I.	60	Mins. 60 Mins.
C First Final Flow Pressure	155	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	452	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	242	P.S.I.	45	Mins. 54 Mins.
F Second Final Flow Pressure	192	P.S.I.		
G Final Closed-in Pressure	452	P.S.I.		
H Final Hydrostatic Mud	668	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>18</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	155	0	242	0	192
P 2	5	3	343	5	200	3	372
P 3	10	6	391	10	188	6	403
P 4	15	9	411	15	184	9	418
P 5	20	12	421	20	184	12	427
P 6	25	15	429	25	184	15	432
P 7	30	18	431	30	186	18	435
P 8	35	21	434	35	188	21	439
P 9	40	24	437	40	191	24	441
P10	45	27	440	45	192	27	444
P11	50	30	443			30	446
P12	55	33	445			33	448
P13	60	36	446			36	449
P14		39	448			39	450
P15		42	449			42	451
P16		45	450			45	452
P17		48	450			48	452
P18		51	451			51	452
P19		54	451			54	452
P20		57	452				
		60	452				

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TK# 5842  
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1559

Company Davies & Company, Inc. Lease & Well No. H. J. Williams #1-23  
 Elevation 1233 Ground Level Formation ---- Effective Pay ----- Ft. Ticket No. 5843  
 Date 7/26/80 Sec. 23 Twp. 27S Range 4E County Butler State Kansas  
 Test Approved by Tom Wesselowski Western Representative Fred G. Klaus

Formation Test No. 2 Interval Tested from 1431 ft. to 1475 ft. Total Depth 1475 ft.  
 Packer Depth 1431 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 1426 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1436 ft. Recorder Number 1559 Cap. 4200 PSI  
 Bottom Recorder Depth (Outside) 1439 ft. Recorder Number 1558 Cap. 4200 PSI  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R. R. A. Drilling Rig #1 Drill Collar Length 310 I. D. 2 3/4 in.  
 Mud Type chemical Viscosity 36 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 14.4 cc. Drill Pipe Length 1101 I. D. 3.8 in.  
 Chlorides 2,400 P.P.M. Test Tool Length 64 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 44 ft. Size 5 1/2 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: Strong throughout test.

Recovered 132 ft. of mud (gassy) (Chlorides 4,800 ppm)  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks: Gas to surface fifty-eight minutes final flow; not measurable. (Two pounds pressure after shut-in for thirty minutes.) Sample taken. Bottle #51

Time Set Packer(s) 5:53 A.M. Time Started Off Bottom 10:53 A.M. Maximum Temperature 87°  
P.M. P.M.  
 Initial Hydrostatic Pressure ..... (A) 735 P.S.I.  
 Initial Flow Period ..... Minutes 60 (B) 58 P.S.I. to (C) 44 P.S.I.  
 Initial Closed In Period ..... Minutes 57 (D) 236 P.S.I.  
 Final Flow Period ..... Minutes 120 (E) 83 P.S.I. to (F) 66 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 243 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 691 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7/26/80 Test Ticket No. 5843  
 Recorder No. 1559 Capacity 4200 Location 1436 Ft.  
 Clock No. ---- Elevation 1233 Ground Level Well Temperature 87 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	735 P.S.I.	Open Tool	5:53	M
B First Initial Flow Pressure	58 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	60 Mins.	57 Mins.
D Initial Closed-in Pressure	236 P.S.I.	Second Flow Pressure	120 Mins.	120 Mins.
E Second Initial Flow Pressure	83 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	66 P.S.I.			
G Final Closed-in Pressure	243 P.S.I.			
H Final Hydrostatic Mud	691 P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>24</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	44	0	83	0	66
P 2	5	3	54	5	58	3	92
P 3	10	6	65	10	50	6	133
P 4	15	9	77	15	50	9	159
P 5	20	12	96	20	50	12	175
P 6	25	15	119	25	50	15	190
P 7	30	18	142	30	50	18	200
P 8	35	21	159	35	50	21	209
P 9	40	24	173	40	50	24	215
P10	45	27	184	45	50	27	219
P11	50	30	190	50	50	30	224
P12	55	33	199	55	52	33	234
P13	60	36	207	60	53	36	236
P14		39	213	65	54	39	238
P15		42	219	70	55	42	240
P16		45	224	75	56	45	241
P17		48	226	80	57	48	241
P18		51	230	85	58	51	242
P19		54	232	90	59	54	242
P20		57	236	95	61	57	243
				105	63	60	243

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7/26/80

Test Ticket No. 5843

Recorder No. 1559

Capacity 4200

Location 1436 Ft.

Clock No. ---- Elevation 1233 Ground Level

Well Temperature 87 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>735</u> P.S.I.	Open Tool	<u>5:53</u>	<u>M</u>
B First Initial Flow Pressure	<u>58</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>44</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>236</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>83</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>66</u> P.S.I.			
G Final Closed-in Pressure	<u>243</u> P.S.I.			
H Final Hydrostatic Mud	<u>691</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 12 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 19 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**Second Flow Pressure**  
Breakdown: 24 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

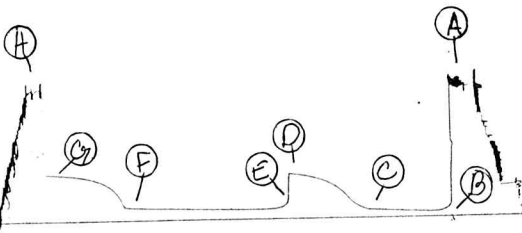
**Final Shut-In**  
Breakdown: 20 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				<u>105</u>	<u>64</u>		
P 2				<u>110</u>	<u>65</u>		
P 3				<u>115</u>	<u>66</u>		
P 4				<u>120</u>	<u>66</u>		
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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1559

Company Davies & Company, Inc. Lease & Well No. H. J. Williams #1-23  
 Elevation 1233 Ground Level Formation Toronto Effective Pay ---- Ft. Ticket No. 5844  
 Date 7/26/80 Sec. 23 Twp. 27S Range 4E County Butler State Kansas

Test Approved by Tom Wesselowski Western Representative Fred G. Klaus

Formation Test No. 3 Interval Tested from 1468 ft. to 1507 ft. Total Depth 1507 ft.  
 Packer Depth 1468 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 1463 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1473 ft. Recorder Number 1559 Cap. 4200 PSI  
 Bottom Recorder Depth (Outside) 1476 ft. Recorder Number 1558 Cap. 4200 PSI  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R. R. A. Drlg. Rig #1 Drill Collar Length 310 I. D. 2 3/4 in.  
 Mud Type chemical Viscosity 36 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 14.4 cc. Drill Pipe Length 1138 I. D. 3.8 in.  
 Chlorides 2,400 P.P.M. Test Tool Length 57 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 37 ft. Size 5 1/2 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 blow throughout test.

Recovered 80 ft. of mud  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 5:57 A.M. Time Started Off Bottom 9:57 P.M. Maximum Temperature 89°  
 Initial Hydrostatic Pressure        (A) 775 P.S.I.  
 Initial Flow Period        Minutes 60 (B) 27 P.S.I. to (C) 31 P.S.I.  
 Initial Closed In Period        Minutes 57 (D) 450 P.S.I.  
 Final Flow Period        Minutes 65 (E) 56 P.S.I. to (F) 56 P.S.I.  
 Final Closed In Period        Minutes 57 (G) 427 P.S.I.  
 Final Hydrostatic Pressure        (H) 714 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7/26/80 Test Ticket No. 5844  
 Recorder No. 1559 Capacity 4200 Location 1473 Ft.  
 Clock No. ----- Elevation 1233 Ground Level Well Temperature 89 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>775</u> P.S.I.	Open Tool	<u>5:57P</u> M	
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>450</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.			
G Final Closed-in Pressure	<u>427</u> P.S.I.			
H Final Hydrostatic Mud	<u>714</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

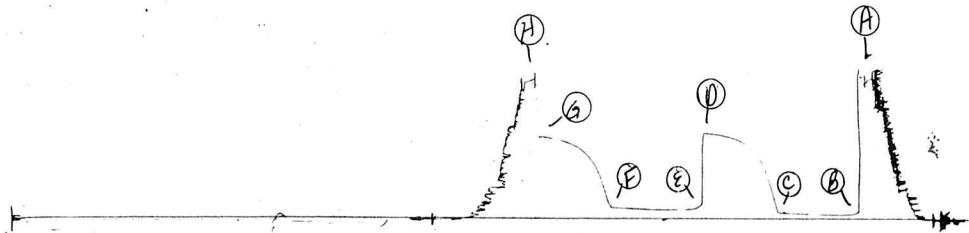
**Initial Shut-In**  
 Breakdown: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 13 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 11 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>27</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>56</u>
P 2 <u>5</u>	<u>25</u>	<u>3</u>	<u>98</u>	<u>5</u>	<u>52</u>	<u>3</u>	<u>71</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>165</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>132</u>
P 4 <u>15</u>	<u>21</u>	<u>9</u>	<u>232</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>188</u>
P 5 <u>20</u>	<u>21</u>	<u>12</u>	<u>284</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>242</u>
P 6 <u>25</u>	<u>21</u>	<u>15</u>	<u>316</u>	<u>25</u>	<u>46</u>	<u>15</u>	<u>282</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>335</u>	<u>30</u>	<u>46</u>	<u>18</u>	<u>310</u>
P 8 <u>35</u>	<u>23</u>	<u>21</u>	<u>354</u>	<u>35</u>	<u>46</u>	<u>21</u>	<u>334</u>
P 9 <u>40</u>	<u>25</u>	<u>24</u>	<u>372</u>	<u>40</u>	<u>48</u>	<u>24</u>	<u>353</u>
P10 <u>45</u>	<u>27</u>	<u>27</u>	<u>391</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>370</u>
P11 <u>50</u>	<u>29</u>	<u>30</u>	<u>410</u>	<u>50</u>	<u>53</u>	<u>30</u>	<u>380</u>
P12 <u>55</u>	<u>30</u>	<u>33</u>	<u>416</u>	<u>55</u>	<u>54</u>	<u>33</u>	<u>387</u>
P13 <u>60</u>	<u>31</u>	<u>36</u>	<u>422</u>	<u>60</u>	<u>55</u>	<u>36</u>	<u>394</u>
P14 _____		<u>39</u>	<u>428</u>	<u>65</u>	<u>56</u>	<u>39</u>	<u>401</u>
P15 _____		<u>42</u>	<u>434</u>			<u>42</u>	<u>408</u>
P16 _____		<u>45</u>	<u>439</u>			<u>45</u>	<u>414</u>
P17 _____		<u>48</u>	<u>442</u>			<u>48</u>	<u>418</u>
P18 _____		<u>51</u>	<u>445</u>			<u>51</u>	<u>421</u>
P19 _____		<u>54</u>	<u>448</u>			<u>54</u>	<u>424</u>
P20 _____		<u>57</u>	<u>450</u>			<u>57</u>	<u>427</u>

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WESTERN TESTING CO., INC.

Pressure Data

Date 7-27-80 Test Ticket No. 5845  
 Recorder No. 1559 Capacity 4200 Location 1503 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1233 ft. Well Temperature 92 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>801</u> P.S.I.	Open Tool	<u>7:45 AM</u>	
B First Initial Flow Pressure	<u>87</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>211</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>420</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>259</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>282</u> P.S.I.			
G Final Closed-in Pressure	<u>456</u> P.S.I.			
H Final Hydrostatic Mud	<u>797</u> P.S.I.			

PRESSURE BREAKDOWN

<b>First Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>87</u>	0	<u>211</u>	0	<u>259</u>	0	<u>282</u>
P 2	<u>73</u>	3	<u>351</u>	5	<u>255</u>	3	<u>382</u>
P 3	<u>96</u>	6	<u>395</u>	10	<u>246</u>	6	<u>410</u>
P 4	<u>130</u>	9	<u>414</u>	15	<u>246</u>	9	<u>422</u>
P 5	<u>157</u>	12	<u>424</u>	20	<u>247</u>	12	<u>429</u>
P 6	<u>171</u>	15	<u>431</u>	25	<u>253</u>	15	<u>435</u>
P 7	<u>180</u>	18	<u>435</u>	30	<u>259</u>	18	<u>438</u>
P 8	<u>187</u>	21	<u>439</u>	35	<u>265</u>	21	<u>441</u>
P 9	<u>193</u>	24	<u>443</u>	40	<u>271</u>	24	<u>444</u>
P 10	<u>199</u>	27	<u>446</u>	45	<u>276</u>	27	<u>447</u>
P 11	<u>203</u>	30	<u>448</u>	50	<u>279</u>	30	<u>450</u>
P 12	<u>207</u>	33	<u>450</u>	55	<u>282</u>	33	<u>451</u>
P 13	<u>211</u>	36	<u>452</u>	<del>60</del>		36	<u>452</u>
P 14		39	<u>454</u>	<del>65</del>		39	<u>453</u>
P 15		42	<u>455</u>	<del>70</del>		42	<u>453</u>
P 16		45	<u>456</u>	<del>75</del>		45	<u>454</u>
P 17		48	<u>457</u>	<del>80</del>		48	<u>454</u>
P 18		51	<u>458</u>	<del>85</del>		51	<u>455</u>
P 19		54	<u>459</u>	<del>90</del>		54	<u>455</u>
P 20		57	<u>459</u>			57	<u>456</u>
		60	<u>460</u>			60	<u>456</u>
		<u>63</u>	<u>460</u>			<u>63</u>	<u>456</u>

Company Davies & Company, Inc. Lease & Well No. H. J. Williams #1-23  
 Elevation 1233 Ground Level Formation Douglas Effective Pay ----- Ft. Ticket No. 5845  
 Date 7/27/80 Sec. 23 Twp 27S Range 4E County Butler State Kansas  
 Test Approved by Gary Sharp Western Representative Fred G. Klaus  
 Formation Test No. 4 Interval Tested from 1498 ft. to 1570 ft. Total Depth 1570 ft.  
 Packer Depth 1498 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 1493 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 1503 ft. Recorder Number 1559 Cap. 4200 PSI  
 Bottom Recorder Depth (Outside) 1506 ft. Recorder Number 1558 Cap. 4200 PSI  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
 Drilling Contractor R. R. A. Drilling Rig #1 Drill Collar Length 310 I. D. 2 3/4 in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 1168 I. D. 3.8 in.  
 Chlorides 4,200 P.P.M. Test Tool Length 92 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 72 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: Fair building to strong throughout test.

Recovered 60 ft. of mud  
 Recovered 490 ft. of muddy water (salty) chlorides 43,000 ppm  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 7:45 A.M. Time Started Off Bottom 11:45 P.M. Maximum Temperature 92°  
 Initial Hydrostatic Pressure ..... (A) 801 P.S.I.  
 Initial Flow Period ..... Minutes 60 (B) 87 P.S.I. to (C) 211 P.S.I.  
 Initial Closed In Period ..... Minutes 63 (D) 460 P.S.I.  
 Final Flow Period ..... Minutes 55 (E) 259 P.S.I. to (F) 282 P.S.I.  
 Final Closed In Period ..... Minutes 63 (G) 456 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 797 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7/27/80 Recorder No. 1559 Capacity 4200 Test Ticket No. 5845  
 Location 1503 Ft. Elevation 1233 Ground Level Well Temperature 92 °F  
 Clock No. ---

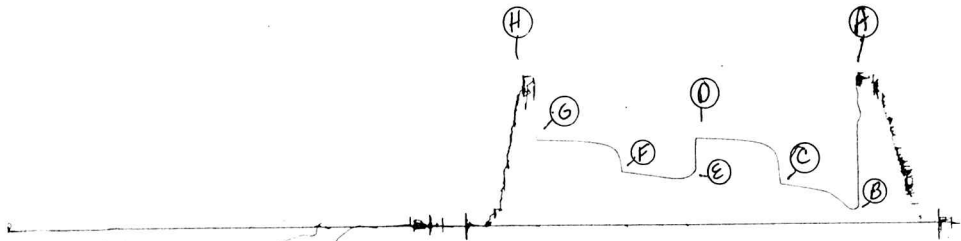
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>801</u> P.S.I.	Open Tool	<u>7:45A</u>	<u>M</u>
B First Initial Flow Pressure	<u>87</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>211</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>460</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>259</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>282</u> P.S.I.			
G Final Closed-in Pressure	<u>456</u> P.S.I.			
H Final Hydrostatic Mud	<u>797</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>87</u>	<u>0</u>	<u>211</u>	<u>0</u>	<u>259</u>	<u>0</u>	<u>282</u>
P 2	<u>73</u>	<u>3</u>	<u>351</u>	<u>5</u>	<u>255</u>	<u>3</u>	<u>382</u>
P 3	<u>96</u>	<u>6</u>	<u>395</u>	<u>10</u>	<u>246</u>	<u>6</u>	<u>410</u>
P 4	<u>130</u>	<u>9</u>	<u>414</u>	<u>15</u>	<u>246</u>	<u>9</u>	<u>422</u>
P 5	<u>157</u>	<u>12</u>	<u>424</u>	<u>20</u>	<u>247</u>	<u>12</u>	<u>429</u>
P 6	<u>171</u>	<u>15</u>	<u>431</u>	<u>25</u>	<u>253</u>	<u>15</u>	<u>435</u>
P 7	<u>180</u>	<u>18</u>	<u>435</u>	<u>30</u>	<u>259</u>	<u>18</u>	<u>438</u>
P 8	<u>187</u>	<u>21</u>	<u>439</u>	<u>35</u>	<u>265</u>	<u>21</u>	<u>441</u>
P 9	<u>193</u>	<u>24</u>	<u>443</u>	<u>40</u>	<u>271</u>	<u>24</u>	<u>444</u>
P10	<u>199</u>	<u>27</u>	<u>446</u>	<u>45</u>	<u>276</u>	<u>27</u>	<u>447</u>
P11	<u>203</u>	<u>30</u>	<u>448</u>	<u>50</u>	<u>279</u>	<u>30</u>	<u>450</u>
P12	<u>207</u>	<u>33</u>	<u>450</u>	<u>55</u>	<u>282</u>	<u>33</u>	<u>451</u>
P13	<u>211</u>	<u>36</u>	<u>452</u>			<u>36</u>	<u>452</u>
P14		<u>39</u>	<u>454</u>			<u>39</u>	<u>453</u>
P15		<u>42</u>	<u>455</u>			<u>42</u>	<u>453</u>
P16		<u>45</u>	<u>456</u>			<u>45</u>	<u>454</u>
P17		<u>48</u>	<u>457</u>			<u>48</u>	<u>454</u>
P18		<u>51</u>	<u>458</u>			<u>51</u>	<u>455</u>
P19		<u>54</u>	<u>459</u>			<u>54</u>	<u>455</u>
P20		<u>57</u>	<u>460</u>			<u>57</u>	<u>456</u>
WTC - 4		<u>60</u>	<u>469</u>			<u>60</u>	<u>456</u>
		<u>63</u>				<u>63</u>	<u>456</u>

JKP # 5845

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