

Company Imperial Oil Company Lease & Well No. Lemon #5-7
Elevation --- Formation --- Effective Pay - Ft. Ticket No. 14768
Date 5/ 9/82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra
Formation Test No. 1 Interval Tested from 4186 ft. to 4200 ft. Total Depth 4200 ft.
Packer Depth 4181 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4186 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4191 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4194 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Drlg. Rig #9 Drill Collar Length 370 I. D. 2 1/4 in.
Mud Type monpac Viscosity 53 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 14.4 cc. Drill Pipe Length 3787 I. D. 3.8 in.
Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WIC Serial Number 410 Anchor Length 14 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: Weak blow throughout initial flow period. No blow on final flow period.

Recovered 20 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:30 ~~P.M.~~ A.M. Time Started Off Bottom 2:30 ~~P.M.~~ A.M. Maximum Temperature 119°
Initial Hydrostatic Pressure 2122 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 61 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period 60 Minutes (D) 563 P.S.I.
Final Flow Period 30 Minutes (E) 69 P.S.I. to (F) 69 P.S.I.
Final Closed In Period 63 Minutes (G) 594 P.S.I.
Final Hydrostatic Pressure 2122 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 5/9/82 Test Ticket No. 14768
 Recorder No. 2607 Capacity 4150 Location 4191 Ft.
 Clock No. --- Elevation ---- Well Temperature 119 °F

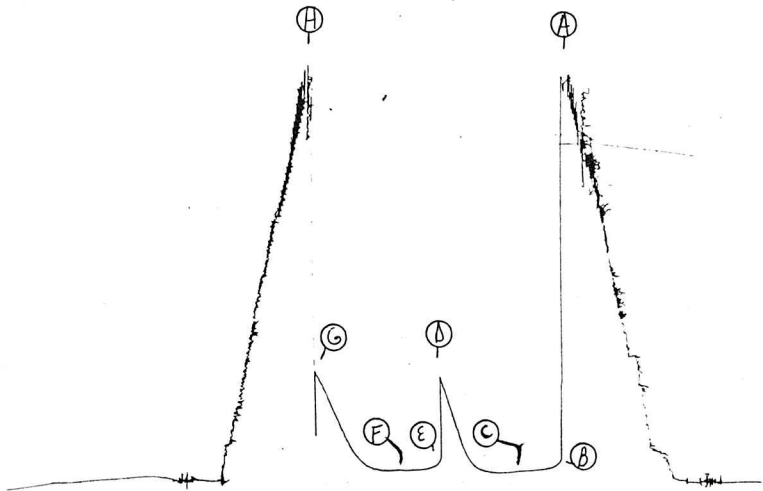
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2122</u> P.S.I.	Open Tool	<u>11:30A</u> M	
B First Initial Flow Pressure	<u>61</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>61</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>563</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>69</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>69</u> P.S.I.			
G Final Closed-in Pressure	<u>594</u> P.S.I.			
H Final Hydrostatic Mud	<u>2122</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>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>21</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>61</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>69</u>
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>60</u>	<u>5</u>	<u>69</u>	<u>3</u>	<u>69</u>
P 3 <u>10</u>	<u>61</u>	<u>6</u>	<u>59</u>	<u>10</u>	<u>69</u>	<u>6</u>	<u>68</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>57</u>	<u>15</u>	<u>69</u>	<u>9</u>	<u>67</u>
P 5 <u>20</u>	<u>61</u>	<u>12</u>	<u>55</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>67</u>
P 6 <u>25</u>	<u>61</u>	<u>15</u>	<u>53</u>	<u>25</u>	<u>69</u>	<u>15</u>	<u>70</u>
P 7 <u>30</u>	<u>61</u>	<u>18</u>	<u>54</u>	<u>30</u>	<u>69</u>	<u>18</u>	<u>74</u>
P 8		<u>21</u>	<u>57</u>			<u>21</u>	<u>82</u>
P 9		<u>24</u>	<u>60</u>			<u>24</u>	<u>92</u>
P10		<u>27</u>	<u>67</u>			<u>27</u>	<u>107</u>
P11		<u>30</u>	<u>72</u>			<u>30</u>	<u>125</u>
P12		<u>33</u>	<u>84</u>			<u>33</u>	<u>150</u>
P13		<u>36</u>	<u>104</u>			<u>36</u>	<u>181</u>
P14		<u>39</u>	<u>133</u>			<u>39</u>	<u>223</u>
P15		<u>42</u>	<u>178</u>			<u>42</u>	<u>267</u>
P16		<u>45</u>	<u>237</u>			<u>45</u>	<u>312</u>
P17		<u>48</u>	<u>305</u>			<u>48</u>	<u>359</u>
P18		<u>51</u>	<u>365</u>			<u>51</u>	<u>408</u>
P19		<u>54</u>	<u>433</u>			<u>54</u>	<u>458</u>
P20		<u>57</u>	<u>501</u>			<u>57</u>	<u>502</u>
		<u>60</u>	<u>563</u>			<u>60</u>	<u>545</u>
						<u>63</u>	<u>594</u>

TKT # 14768

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Company Imperial Oil Company Lease & Well No. Lemon #5-7
 Elevation --- Formation Lansing Effective Pay - Ft. Ticket No. 14769
 Date 5/ 10/82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas
 Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra
 Formation Test No. 2 Interval Tested from 4209 ft. to 4226 ft. Total Depth 4226 ft.
 Packer Depth 4204 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4209 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4216 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4219 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Drlg. Rig #9 Drill Collar Length 370 I. D. 2 1/4 in.
 Mud Type monpac Viscosity 53 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 14.4 cc. Drill Pipe Length 3840 I. D. 3.8 in.
 Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 17 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: Weak blow throughout initial flow period. No blow on final flow period.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:20 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:20 ~~P.M.~~ ^{A.M.} Maximum Temperature 119°
 Initial Hydrostatic Pressure 2165 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 79 P.S.I. to (C) 79 P.S.I.
 Initial Closed In Period 57 Minutes (D) 1464 P.S.I.
 Final Flow Period 35 Minutes (E) 82 P.S.I. to (F) 82 P.S.I.
 Final Closed In Period 60 Minutes (G) 1391 P.S.I.
 Final Hydrostatic Pressure 2127 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 5/10/82 Test Ticket No. 14769
 Recorder No. 2607 Capacity 4150 Location 4216 Ft.
 Clock No. -- Elevation --- Well Temperature 119 °F

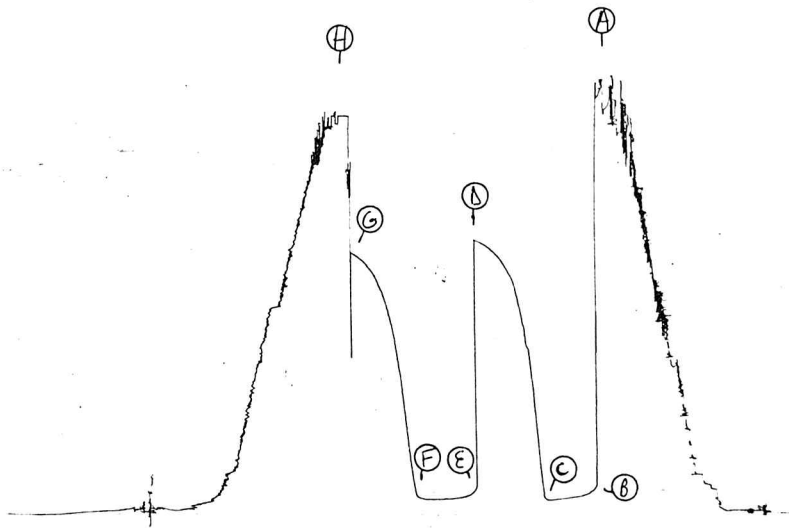
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2165 P.S.I.	Open Tool	1:20A M	
B First Initial Flow Pressure	79 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C First Final Flow Pressure	79 P.S.I.	Initial Closed-in Pressure	60 Mins.	57 Mins.
D Initial Closed-in Pressure	1464 P.S.I.	Second Flow Pressure	30 Mins.	35 Mins.
E Second Initial Flow Pressure	82 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	82 P.S.I.			
G Final Closed-in Pressure	1391 P.S.I.			
H Final Hydrostatic Mud	2127 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>7</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>79</u>	<u>0</u>	<u>79</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>82</u>
P 2 <u>5</u>	<u>79</u>	<u>3</u>	<u>93</u>	<u>5</u>	<u>82</u>	<u>3</u>	<u>83</u>
P 3 <u>10</u>	<u>79</u>	<u>6</u>	<u>284</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>88</u>
P 4 <u>15</u>	<u>79</u>	<u>9</u>	<u>515</u>	<u>15</u>	<u>82</u>	<u>9</u>	<u>98</u>
P 5 <u>20</u>	<u>79</u>	<u>12</u>	<u>708</u>	<u>20</u>	<u>82</u>	<u>12</u>	<u>180</u>
P 6 <u>25</u>	<u>79</u>	<u>15</u>	<u>877</u>	<u>25</u>	<u>82</u>	<u>15</u>	<u>335</u>
P 7 <u>30</u>	<u>79</u>	<u>18</u>	<u>981</u>	<u>30</u>	<u>82</u>	<u>18</u>	<u>515</u>
P 8 <u>35</u>	<u>79</u>	<u>21</u>	<u>1071</u>	<u>35</u>	<u>82</u>	<u>21</u>	<u>696</u>
P 9		<u>24</u>	<u>1165</u>			<u>24</u>	<u>833</u>
P 10		<u>27</u>	<u>1234</u>			<u>27</u>	<u>962</u>
P 11		<u>30</u>	<u>1280</u>			<u>30</u>	<u>1059</u>
P 12		<u>33</u>	<u>1319</u>			<u>33</u>	<u>1130</u>
P 13		<u>36</u>	<u>1352</u>			<u>36</u>	<u>1192</u>
P 14		<u>39</u>	<u>1380</u>			<u>39</u>	<u>1242</u>
P 15		<u>42</u>	<u>1401</u>			<u>42</u>	<u>1278</u>
P 16		<u>45</u>	<u>1420</u>			<u>45</u>	<u>1309</u>
P 17		<u>48</u>	<u>1436</u>			<u>48</u>	<u>1336</u>
P 18		<u>51</u>	<u>1448</u>			<u>51</u>	<u>1355</u>
P 19		<u>54</u>	<u>1458</u>			<u>54</u>	<u>1374</u>
P 20		<u>57</u>	<u>1464</u>			<u>57</u>	<u>1388</u>
						<u>60</u>	<u>1391</u>

TRT # 14769

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Company Imperial Oil Company Lease & Well No. Lemon #5-7
Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 14770
Date 5/10/82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by Douglas V Davis, Jr. Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4239 ft. to 4295 ft. Total Depth 4295 ft.

Packer Depth 4234 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4239 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4252 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4255 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor White & Ellis Rig #9 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Monpac Viscosity 63 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 13.6 cc. Drill Pipe Length 3900 I. D. 3.8 in.

Chlorides 30,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 56 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: Weak increased to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 30 ft. of drilling mud

Recovered 180 ft. of oil & gas cut mud

Recovered 90 ft. of heavy oil & gas cut mud

Recovered 30 ft. of watery mud

Recovered ft. of

Remarks:

Time Set Packer(s) 8:30 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 ~~A.M.~~ P.M. Maximum Temperature 120

Initial Hydrostatic Pressure (A) 2272 P.S.I.

Initial Flow Period Minutes 60 (B) 98 P.S.I. to (C) 111 P.S.I.

Initial Closed In Period Minutes 90 (D) 1278 P.S.I.

Final Flow Period Minutes 60 (E) 152 P.S.I. to (F) 152 P.S.I.

Final Closed In Period Minutes 99 (G) 1182 P.S.I.

Final Hydrostatic Pressure (H) 2177 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/10/82 Test Ticket No. 14770
Recorder No. 2607 Capacity 4150 Location 4252 Ft.
Clock No. - Elevation - Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2272</u> P.S.I.	Open Tool	<u>8:30P</u> M	
B First Initial Flow Pressure	<u>98</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>111</u> P.S.I.	Initial Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
D Initial Closed-in Pressure	<u>1278</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>152</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>99</u> Mins.
F Second Final Flow Pressure	<u>152</u> P.S.I.			
G Final Closed-in Pressure	<u>1182</u> P.S.I.			
H Final Hydrostatic Mud	<u>2177</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>33</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>98</u>	<u>0</u>	<u>111</u>	<u>0</u>	<u>152</u>	<u>0</u>	<u>152</u>
P 2 <u>5</u>	<u>98</u>	<u>3</u>	<u>123</u>	<u>5</u>	<u>152</u>	<u>3</u>	<u>157</u>
P 3 <u>10</u>	<u>98</u>	<u>6</u>	<u>163</u>	<u>10</u>	<u>152</u>	<u>6</u>	<u>167</u>
P 4 <u>15</u>	<u>98</u>	<u>9</u>	<u>222</u>	<u>15</u>	<u>152</u>	<u>9</u>	<u>205</u>
P 5 <u>20</u>	<u>98</u>	<u>12</u>	<u>292</u>	<u>20</u>	<u>152</u>	<u>12</u>	<u>252</u>
P 6 <u>25</u>	<u>98</u>	<u>15</u>	<u>366</u>	<u>25</u>	<u>152</u>	<u>15</u>	<u>309</u>
P 7 <u>30</u>	<u>98</u>	<u>18</u>	<u>451</u>	<u>30</u>	<u>152</u>	<u>18</u>	<u>371</u>
P 8 <u>35</u>	<u>98</u>	<u>21</u>	<u>540</u>	<u>35</u>	<u>152</u>	<u>21</u>	<u>432</u>
P 9 <u>40</u>	<u>98</u>	<u>24</u>	<u>623</u>	<u>40</u>	<u>152</u>	<u>24</u>	<u>500</u>
P10 <u>45</u>	<u>101</u>	<u>27</u>	<u>704</u>	<u>45</u>	<u>152</u>	<u>27</u>	<u>564</u>
P11 <u>50</u>	<u>105</u>	<u>30</u>	<u>777</u>	<u>50</u>	<u>152</u>	<u>30</u>	<u>627</u>
P12 <u>55</u>	<u>107</u>	<u>33</u>	<u>841</u>	<u>55</u>	<u>152</u>	<u>33</u>	<u>685</u>
P13 <u>60</u>	<u>111</u>	<u>36</u>	<u>896</u>	<u>60</u>	<u>152</u>	<u>36</u>	<u>739</u>
P14		<u>39</u>	<u>939</u>			<u>39</u>	<u>784</u>
P15		<u>42</u>	<u>973</u>			<u>42</u>	<u>829</u>
P16		<u>45</u>	<u>1008</u>			<u>45</u>	<u>864</u>
P17		<u>48</u>	<u>1036</u>			<u>48</u>	<u>902</u>
P18		<u>51</u>	<u>1067</u>			<u>51</u>	<u>931</u>
P19		<u>54</u>	<u>1092</u>			<u>54</u>	<u>956</u>
P20		<u>57</u>	<u>1117</u>			<u>57</u>	<u>981</u>
		<u>60</u>	<u>1142</u>			<u>60</u>	<u>998</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/10/82

Test Ticket No. 14770

Recorder No. 2607 Capacity 4150 Location 4252 Ft.

Clock No. - Elevation - Well Temperature 120 °F

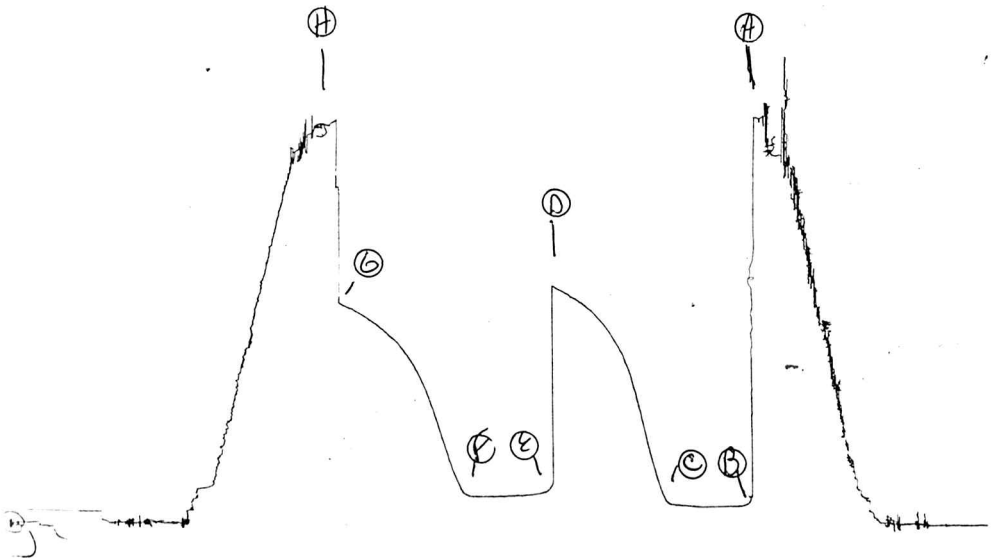
Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2272</u>	P.S.I.	<u>8:30P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>98</u>	P.S.I.	<u>60</u>	<u>60</u>
C. First Final Flow Pressure	<u>111</u>	P.S.I.	<u>90</u>	<u>90</u>
D. Initial Closed-in Pressure	<u>1278</u>	P.S.I.	<u>60</u>	<u>60</u>
E. Second Initial Flow Pressure	<u>152</u>	P.S.I.	<u>90</u>	<u>99</u>
F. Second Final Flow Pressure	<u>152</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1182</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>2177</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>33</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		63	1157			63	1019
P 2		66	1178			66	1038
P 3		69	1190			69	1056
P 4		72	1205			72	1073
P 5		75	1217			75	1086
P 6		78	1234			78	1102
P 7		81	1246			81	1116
P 8		84	1255			84	1130
P 9		87	1268			87	1141
P10		90	1278			90	1155
P11						93	1162
P12						96	1171
P13						99	1182
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Sta # 14770

I



Company Imperial Oil Company Lease & Well No. Lemon #5-7
Elevation - Formation Marmaton Effective Pay - Ft. Ticket No. 14771
Date 5/11/82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by Douglas V Davis, Jr. Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 4370 ft. to 4415 ft. Total Depth 4415 ft.

Packer Depth 4365 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4370 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4374 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4377 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor White & Ellis Rig #9 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Monpac Viscosity 48 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 20.0 cc. Drill Pipe Length 4031 I. D. 3.8 in.

Chlorides 31,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 45 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: Weak increased to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 90 ft. of slightly oil & gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:35 A.M. Time Started Off Bottom 12:35 P.M. Maximum Temperature 122

Initial Hydrostatic Pressure 2289 P.S.I. (A)

Initial Flow Period 60 Minutes (B) 62 P.S.I. to (C) 67 P.S.I.

Initial Closed In Period 87 Minutes (D) 524 P.S.I.

Final Flow Period 60 Minutes (E) 98 P.S.I. to (F) 92 P.S.I.

Final Closed In Period 87 Minutes (G) 351 P.S.I.

Final Hydrostatic Pressure 2162 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 5/11/82 Recorder No. 2607 Capacity 4150 Test Ticket No. 14771 Location 4374 Ft.
 Clock No. - Elevation - Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2289</u> P.S.I.	Open Tool	<u>7:35P</u> M	
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>67</u> P.S.I.	Initial Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
D Initial Closed-in Pressure	<u>524</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>92</u> P.S.I.			
G Final Closed-in Pressure	<u>351</u> P.S.I.			
H Final Hydrostatic Mud	<u>2162</u> 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>29</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</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 <u>0</u>	<u>62</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>92</u>
P 2 <u>5</u>	<u>62</u>	<u>3</u>	<u>71</u>	<u>5</u>	<u>98</u>	<u>3</u>	<u>93</u>
P 3 <u>10</u>	<u>62</u>	<u>6</u>	<u>76</u>	<u>10</u>	<u>98</u>	<u>6</u>	<u>95</u>
P 4 <u>15</u>	<u>62</u>	<u>9</u>	<u>84</u>	<u>15</u>	<u>98</u>	<u>9</u>	<u>99</u>
P 5 <u>20</u>	<u>62</u>	<u>12</u>	<u>108</u>	<u>20</u>	<u>98</u>	<u>12</u>	<u>106</u>
P 6 <u>25</u>	<u>62</u>	<u>15</u>	<u>125</u>	<u>25</u>	<u>98</u>	<u>15</u>	<u>112</u>
P 7 <u>30</u>	<u>63</u>	<u>18</u>	<u>146</u>	<u>30</u>	<u>97</u>	<u>18</u>	<u>123</u>
P 8 <u>35</u>	<u>63</u>	<u>21</u>	<u>167</u>	<u>35</u>	<u>95</u>	<u>21</u>	<u>130</u>
P 9 <u>40</u>	<u>64</u>	<u>24</u>	<u>188</u>	<u>40</u>	<u>93</u>	<u>24</u>	<u>142</u>
P10 <u>45</u>	<u>65</u>	<u>27</u>	<u>207</u>	<u>45</u>	<u>92</u>	<u>27</u>	<u>157</u>
P11 <u>50</u>	<u>65</u>	<u>30</u>	<u>229</u>	<u>50</u>	<u>92</u>	<u>30</u>	<u>165</u>
P12 <u>55</u>	<u>65</u>	<u>33</u>	<u>247</u>	<u>55</u>	<u>92</u>	<u>33</u>	<u>174</u>
P13 <u>60</u>	<u>67</u>	<u>36</u>	<u>265</u>	<u>60</u>	<u>92</u>	<u>36</u>	<u>184</u>
P14		<u>39</u>	<u>284</u>			<u>39</u>	<u>197</u>
P15		<u>42</u>	<u>302</u>			<u>42</u>	<u>210</u>
P16		<u>45</u>	<u>319</u>			<u>45</u>	<u>216</u>
P17		<u>48</u>	<u>337</u>			<u>48</u>	<u>229</u>
P18		<u>51</u>	<u>353</u>			<u>51</u>	<u>239</u>
P19		<u>54</u>	<u>366</u>			<u>54</u>	<u>249</u>
P20		<u>57</u>	<u>379</u>			<u>57</u>	<u>259</u>
		<u>60</u>	<u>394</u>			<u>60</u>	<u>269</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/11/82 Test Ticket No. 14771
 Recorder No. 2607 Capacity 4150 Location 4374 Ft.
 Clock No. - Elevation - Well Temperature 122 °F

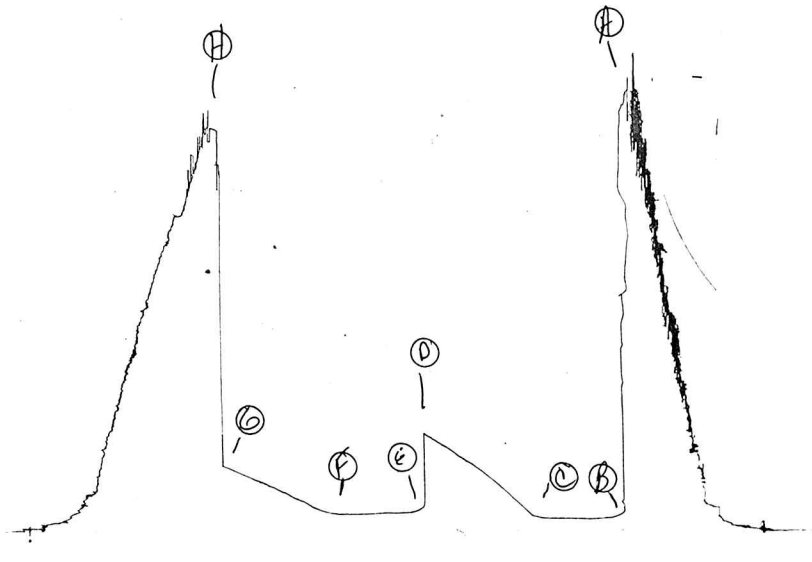
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2289</u> P.S.I.	Open Tool	<u>7:35P</u> M	
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>67</u> P.S.I.	Initial Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
D Initial Closed-in Pressure	<u>524</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>92</u> P.S.I.			
G Final Closed-in Pressure	<u>351</u> P.S.I.			
H Final Hydrostatic Mud	<u>2162</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>29</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>29</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		63	407			63	275
P 2		66	423			66	285
P 3		69	436			69	294
P 4		72	451			72	305
P 5		75	466			75	313
P 6		78	479			78	324
P 7		81	492			81	333
P 8		84	506			84	342
P 9		87	524			87	351
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JK # 14771

I



Company Imperial Oil Company Lease & Well No. Lemon #5-7

Elevation --- Formation Mississippi Effective Pay --- Ft. Ticket No. 14772

Date 5/12 /82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas

Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra

Formation Test No. 5 Interval Tested from 4465 ft. to 4528 ft. Total Depth 4528 ft.

Packer Depth 4460 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4465 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4485 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4488 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor White & Ellis Drlg. Rig #9 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type monpac Viscosity 68 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 10.4 cc. Drill Pipe Length 4126 I. D. 3.8 in.

Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 63 ft. Size 5 1/2 OD in.

Did Well Flow? Yes 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: Strong blow throughout test. Gas to surface in four minutes on pre-flow. See attached sheet for gas measurements.

Recovered 210 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:00 ~~A.M.~~ P.M. Maximum Temperature 123°

Initial Hydrostatic Pressure 2299 (A) P.S.I.

Initial Flow Period 60 Minutes (B) 93 P.S.I. to (C) 93 P.S.I.

Initial Closed In Period 123 Minutes (D) 1518 P.S.I.

Final Flow Period 60 Minutes (E) 84 P.S.I. to (F) 84 P.S.I.

Final Closed In Period 129 Minutes (G) 1490 P.S.I.

Final Hydrostatic Pressure 2232 (H) P.S.I.

GAS FLOW REPORT

Date 5/12/82 Ticket 14772 Company Imperial Oil Company
 Well Name and No. Lemon #5-7 Dst No. 5 Interval Tested 4465'-4528'
 County Pratt State Kansas Sec. 7 Twp. 27S Rg. 15W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
Gas to surface in four minutes. PRE FLOW					
5 min.	18" of	water	1½" orifice		295,000 CFPD
10 min.	20" of	water	1½" orifice		311,000 CFPD
20 min.	22" of	water	1½" orifice		326,000 CFPD
30 min.	26" of	water	1½" orifice		355,000 CFPD
40 min.	28" of	water	1½" orifice		368,000 CFPD
50 min.	30" of	water	1½" orifice		381,000 CFPD
60 min.	30" of	water	1½" orifice		381,000 CFPD
SECOND FLOW					
5 min.	34" of	water	1½" orifice		406,000 CFPD
10 min.	32" of	water	1½" orifice		394,000 CFPD
20 min.	32" of	water	1½" orifice		394,000 CFPD
30 min.	32" of	water	1½" orifice		394,000 CFPD
40 min.	32" of	water	1½" orifice		394,000 CFPD
50 min.	32" of	water	1½" orifice		394,000 CFPD
60 min.	32" of	water	1½" orifice		394,000 CFPD

GAS BOTTLE

Serial No. Date Bottle Filled Date to be Invoiced 5/12/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Imperial Oil Company
 Authorized by Douglas V. Davis, Jr.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/12/82 Test Ticket No. 14772
Recorder No. 2607 Capacity 4150 Location 4485 Ft. 123
Clock No. --- Elevation --- Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2299</u> P.S.I.	Open Tool	<u>7:00P</u> M	
B First Initial Flow Pressure	<u>93</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>93</u> P.S.I.	Initial Closed-in Pressure	<u>120</u> Mins.	<u>123</u> Mins.
D Initial Closed-in Pressure	<u>1518</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>84</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>129</u> Mins.
F Second Final Flow Pressure	<u>84</u> P.S.I.			
G Final Closed-in Pressure	<u>1490</u> P.S.I.			
H Final Hydrostatic Mud	<u>2232</u> 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>41</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>43</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 <u>0</u>	<u>93</u>	<u>0</u>	<u>93</u>	<u>0</u>	<u>84</u>	<u>0</u>	<u>84</u>
P 2 <u>5</u>	<u>93</u>	<u>3</u>	<u>820</u>	<u>5</u>	<u>84</u>	<u>3</u>	<u>556</u>
P 3 <u>10</u>	<u>93</u>	<u>6</u>	<u>1240</u>	<u>10</u>	<u>84</u>	<u>6</u>	<u>964</u>
P 4 <u>15</u>	<u>93</u>	<u>9</u>	<u>1395</u>	<u>15</u>	<u>84</u>	<u>9</u>	<u>1303</u>
P 5 <u>20</u>	<u>93</u>	<u>12</u>	<u>1437</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>1395</u>
P 6 <u>25</u>	<u>93</u>	<u>15</u>	<u>1452</u>	<u>25</u>	<u>84</u>	<u>15</u>	<u>1420</u>
P 7 <u>30</u>	<u>93</u>	<u>18</u>	<u>1469</u>	<u>30</u>	<u>84</u>	<u>18</u>	<u>1437</u>
P 8 <u>35</u>	<u>93</u>	<u>21</u>	<u>1477</u>	<u>35</u>	<u>84</u>	<u>21</u>	<u>1450</u>
P 9 <u>40</u>	<u>93</u>	<u>24</u>	<u>1485</u>	<u>40</u>	<u>84</u>	<u>24</u>	<u>1460</u>
P10 <u>45</u>	<u>93</u>	<u>27</u>	<u>1493</u>	<u>45</u>	<u>84</u>	<u>27</u>	<u>1469</u>
P11 <u>50</u>	<u>93</u>	<u>30</u>	<u>1498</u>	<u>50</u>	<u>84</u>	<u>30</u>	<u>1477</u>
P12 <u>55</u>	<u>93</u>	<u>33</u>	<u>1500</u>	<u>55</u>	<u>84</u>	<u>33</u>	<u>1478</u>
P13 <u>60</u>	<u>93</u>	<u>36</u>	<u>1502</u>	<u>60</u>	<u>84</u>	<u>36</u>	<u>1479</u>
P14		<u>39</u>	<u>1504</u>			<u>39</u>	<u>1480</u>
P15		<u>42</u>	<u>1506</u>			<u>42</u>	<u>1481</u>
P16		<u>45</u>	<u>1507</u>			<u>45</u>	<u>1482</u>
P17		<u>48</u>	<u>1508</u>			<u>48</u>	<u>1483</u>
P18		<u>51</u>	<u>1509</u>			<u>51</u>	<u>1484</u>
P19		<u>54</u>	<u>1510</u>			<u>54</u>	<u>1485</u>
P20		<u>57</u>	<u>1511</u>			<u>57</u>	<u>1486</u>
		<u>60</u>	<u>1512</u>			<u>60</u>	<u>1487</u>

WESTERN TESTING CO., INC.

Pressure Data

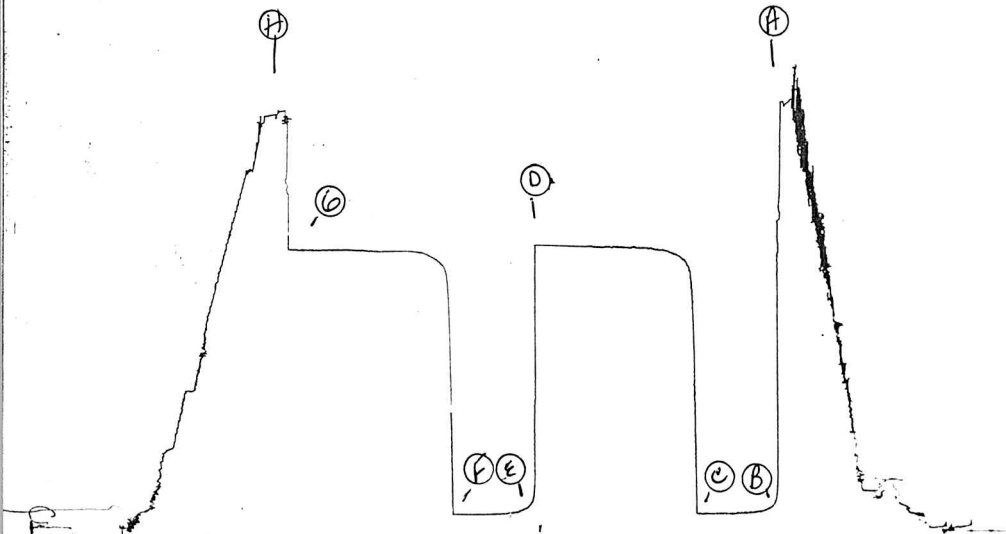
Date 5/12/82 Test Ticket No. 14772
Recorder No. 2607 Capacity 4150 Location 4485 Ft. 123
Clock No. -- Elevation --- Well Temperature 123 °F
Point Pressure Time Given Time Computed
A Initial Hydrostatic Mud 2299 P.S.I. Open Tool 7:00P M
B First Initial Flow Pressure 93 P.S.I. First Flow Pressure 60 Mins. 60 Mins.
C First Final Flow Pressure 93 P.S.I. Initial Closed-in Pressure 120 Mins. 123 Mins.
D Initial Closed-in Pressure 1518 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
E Second Initial Flow Pressure 84 P.S.I. Final Closed-in Pressure 120 Mins. 129 Mins.
F Second Final Flow Pressure 84 P.S.I.
G Final Closed-in Pressure 1490 P.S.I.
H Final Hydrostatic Mud 2232 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>41</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>43</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		63	1513			63	1488
P 2		66	1514			66	1489
P 3		69	1516			69	1490
P 4		72	1517			72	1490
P 5		75	1518			75	1490
P 6		78	1518			78	1490
P 7		81	1518			81	1490
P 8		84	1518			84	1490
P 9		87	1518			87	1490
P10		90	1518			90	1490
P11		93	1518			93	1490
P12		96	1518			96	1490
P13		99	1518			99	1490
P14		102	1518			102	1490
P15		105	1518			105	1490
P16		108	1518			108	1490
P17		111	1518			111	1490
P18		114	1518			114	1490
P19		117	1518			117	1490
P20		120	1518			120	1490
		123	1518			123	1490
						126	1490
						129	1490

11
JB #14772

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It # 14772

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Company Imperial Oil Company Lease & Well No. Lemon #5-7
Elevation = Formation Kinderhook Effective Pay - Ft. Ticket No. 14773
Date 5/13/82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra
Formation Test No. 6 Interval Tested from 4535 ft. to 4569 ft. Total Depth 4569 ft.
Packer Depth 4530 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4535 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4559 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4562 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Drlg. Rig #9 Drill Collar Length 340 I. D. 2 1/4 in.
Mud Type monpac Viscosity 72 Weight Pipe Length - I. D. - in.
Weight 8.8 Water Loss 12.2 cc. Drill Pipe Length 4166 I. D. 3.8 in.
Chlorides 28,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 34 ft. Size 5 1/2 OD 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 FH in.

Blow: Weak increased to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 1000 ft. of gas cut mud (few specks of oil)
Recovered 2180 ft. of drilling mud
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Packer failed on second flow.

Time Set Packer(s) 1:20 ~~A.M.~~ P.M. Time Started Off Bottom 5:05 ~~A.M.~~ P.M. Maximum Temperature 124°
Initial Hydrostatic Pressure 2352 (A) P.S.I.
Initial Flow Period 60 Minutes (B) 137 P.S.I. to (C) 334 P.S.I.
Initial Closed In Period 120 Minutes (D) 1435 P.S.I.
Final Flow Period -- Minutes (E) -- P.S.I. to (F) -- P.S.I.
Final Closed In Period -- Minutes (G) -- P.S.I.
Final Hydrostatic Pressure 2340 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/13/82 Test Ticket No. 14773
 Recorder No. 2607 Capacity 4150 Location 4559 Ft.
 Clock No. -- Elevation ---- Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2352</u> P.S.I.	Open Tool	1:20P	M
B First Initial Flow Pressure	<u>137</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>334</u> P.S.I.	Initial Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
D Initial Closed-in Pressure	<u>1435</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>--</u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>2340</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>40</u> Inc.		Breakdown: <u>0</u> Inc.		Breakdown: <u>0</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>127</u>	<u>0</u>	<u>334</u>				
P 2 <u>5</u>	<u>205</u>	<u>3</u>	<u>360</u>				
P 3 <u>10</u>	<u>294</u>	<u>6</u>	<u>449</u>				
P 4 <u>15</u>	<u>294</u>	<u>9</u>	<u>546</u>				
P 5 <u>20</u>	<u>294</u>	<u>12</u>	<u>641</u>				
P 6 <u>25</u>	<u>369</u>	<u>15</u>	<u>745</u>				
P 7 <u>30</u>	<u>345</u>	<u>18</u>	<u>835</u>				
P 8 <u>35</u>	<u>337</u>	<u>21</u>	<u>916</u>				
P 9 <u>40</u>	<u>336</u>	<u>24</u>	<u>979</u>				
P10 <u>45</u>	<u>336</u>	<u>27</u>	<u>1044</u>				
P11 <u>50</u>	<u>335</u>	<u>30</u>	<u>1077</u>				
P12 <u>55</u>	<u>334</u>	<u>33</u>	<u>1121</u>				
P13 <u>60</u>	<u>334</u>	<u>36</u>	<u>1158</u>				
P14		<u>39</u>	<u>1186</u>				
P15		<u>42</u>	<u>1205</u>				
P16		<u>45</u>	<u>1226</u>				
P17		<u>48</u>	<u>1249</u>				
P18		<u>51</u>	<u>1270</u>				
P19		<u>54</u>	<u>1288</u>				
P20		<u>57</u>	<u>1307</u>				
		<u>60</u>	<u>1322</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date 5/13/82 Test Ticket No. 14773
 Recorder No. 2607 Capacity 4150 Location 4559 Ft.
 Clock No. --- Elevation ---- Well Temperature 124 °F

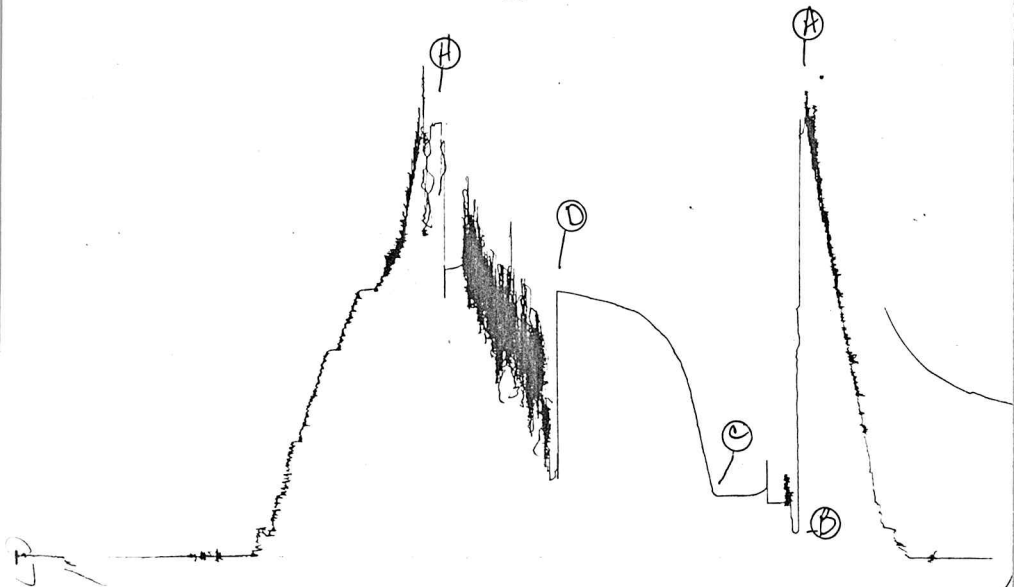
Point	Pressure		Time Given 1:20P	Time Computed
A Initial Hydrostatic Mud	<u>2352</u> P.S.I.	Open Tool	<u>60</u> M	<u>60</u>
B First Initial Flow Pressure	<u>137</u> P.S.I.	First Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
C First Final Flow Pressure	<u>334</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>--</u> Mins.
D Initial Closed-in Pressure	<u>1435</u> P.S.I.	Second Flow Pressure	<u>--</u> Mins.	<u>--</u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>2340</u> 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 <u>40</u> Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>0</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>0</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		63	1330				
P 2		66	1336				
P 3		69	1343				
P 4		72	1353				
P 5		75	1361				
P 6		78	1370				
P 7		81	1375				
P 8		84	1382				
P 9		87	1386				
P10		90	1390				
P11		93	1394				
P12		96	1400				
P13		99	1407				
P14		102	1412				
P15		105	1418				
P16		108	1422				
P17		111	1427				
P18		114	1431				
P19		117	1433				
P20		120	1435				

Alt # 14773

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Company Imperial Oil Company Lease & Well No. Lemon #5-7
Elevation - Formation Kinderhook Effective Pay - Ft. Ticket No. 14774
Date 5/14/82 Sec. 7 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra

Formation Test No. 7 Interval Tested from 4537 ft. to 4584 ft. Total Depth 4584 ft.

Packer Depth 4524 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4537 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4540 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4543 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor White & Ellis DRlg. Rig #9 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type premix-monpac Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 21.6 cc. Drill Pipe Length 4180 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 37 ft. Tool Size 5 1/2 OD in.

Jars: Make WIC Serial Number 410 Anchor Length 47 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: Weak increased to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 130 ft. of gas cut mud (slightly oil cut)

Recovered 270 ft. of salt water (Chlorides 73,000 ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:45 ~~P.M.~~ A.M. Time Started Off Bottom 11:45 ~~P.M.~~ A.M. Maximum Temperature 124°

Initial Hydrostatic Pressure 2371 P.S.I. (A)

Initial Flow Period 60 Minutes (B) 110 P.S.I. to (C) 143 P.S.I.

Initial Closed In Period 120 Minutes (D) 1428 P.S.I.

Final Flow Period 60 Minutes (E) 227 P.S.I. to (F) 229 P.S.I.

Final Closed In Period 117 Minutes (G) 1406 P.S.I.

Final Hydrostatic Pressure 2278 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 5/14/82 Test Ticket No. 14774
 Recorder No. 2607 Capacity 4150 Location 4540 Ft.
 Clock No. --- Elevation ---- Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2371</u> P.S.I.	Open Tool	<u>5:45A</u> M	
B First Initial Flow Pressure	<u>110</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>143</u> P.S.I.	Initial Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
D Initial Closed-in Pressure	<u>1428</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>227</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Mins.
F Second Final Flow Pressure	<u>229</u> P.S.I.			
G Final Closed-in Pressure	<u>1406</u> P.S.I.			
H Final Hydrostatic Mud	<u>2278</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>40</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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>110</u>	<u>0</u>	<u>143</u>	<u>0</u>	<u>227</u>	<u>0</u>	<u>229</u>
P 2 <u>5</u>	<u>110</u>	<u>3</u>	<u>328</u>	<u>5</u>	<u>227</u>	<u>3</u>	<u>371</u>
P 3 <u>10</u>	<u>110</u>	<u>6</u>	<u>485</u>	<u>10</u>	<u>227</u>	<u>6</u>	<u>464</u>
P 4 <u>15</u>	<u>112</u>	<u>9</u>	<u>641</u>	<u>15</u>	<u>227</u>	<u>9</u>	<u>575</u>
P 5 <u>20</u>	<u>117</u>	<u>12</u>	<u>758</u>	<u>20</u>	<u>227</u>	<u>12</u>	<u>681</u>
P 6 <u>25</u>	<u>121</u>	<u>15</u>	<u>860</u>	<u>25</u>	<u>227</u>	<u>15</u>	<u>785</u>
P 7 <u>30</u>	<u>126</u>	<u>18</u>	<u>931</u>	<u>30</u>	<u>227</u>	<u>18</u>	<u>875</u>
P 8 <u>35</u>	<u>130</u>	<u>21</u>	<u>993</u>	<u>35</u>	<u>228</u>	<u>21</u>	<u>939</u>
P 9 <u>40</u>	<u>135</u>	<u>24</u>	<u>1042</u>	<u>40</u>	<u>228</u>	<u>24</u>	<u>996</u>
P10 <u>45</u>	<u>140</u>	<u>27</u>	<u>1079</u>	<u>45</u>	<u>229</u>	<u>27</u>	<u>1044</u>
P11 <u>50</u>	<u>141</u>	<u>30</u>	<u>1119</u>	<u>50</u>	<u>229</u>	<u>30</u>	<u>1088</u>
P12 <u>55</u>	<u>141</u>	<u>33</u>	<u>1144</u>	<u>55</u>	<u>229</u>	<u>33</u>	<u>1121</u>
P13 <u>60</u>	<u>143</u>	<u>36</u>	<u>1167</u>	<u>60</u>	<u>229</u>	<u>36</u>	<u>1144</u>
P14		<u>39</u>	<u>1195</u>			<u>39</u>	<u>1167</u>
P15		<u>42</u>	<u>1216</u>			<u>42</u>	<u>1189</u>
P16		<u>45</u>	<u>1234</u>			<u>45</u>	<u>1209</u>
P17		<u>48</u>	<u>1255</u>			<u>48</u>	<u>1226</u>
P18		<u>51</u>	<u>1272</u>			<u>51</u>	<u>1242</u>
P19		<u>54</u>	<u>1293</u>			<u>54</u>	<u>1257</u>
P20		<u>57</u>	<u>1297</u>			<u>57</u>	<u>1273</u>
		<u>60</u>	<u>1309</u>			<u>60</u>	<u>1282</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/14/82 Test Ticket No. 14774
 Recorder No. 2607 Capacity 4150 Location 4540 Ft.
 Clock No. --- Elevation ---- Well Temperature 124 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2371 P.S.I.	5:45A	M
B First Initial Flow Pressure	110 P.S.I.	60 Mins.	60 Mins.
C First Final Flow Pressure	143 P.S.I.	120 Mins.	120 Mins.
D Initial Closed-in Pressure	1428 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	227 P.S.I.	120 Mins.	117 Mins.
F Second Final Flow Pressure	229 P.S.I.		
G Final Closed-in Pressure	1406 P.S.I.		
H Final Hydrostatic Mud	2278 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>40</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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		63	1318			63	1296
P 2		66	1327			66	1305
P 3		69	1340			69	1315
P 4		72	1349			72	1324
P 5		75	1361			75	1332
P 6		78	1364			78	1340
P 7		81	1373			81	1348
P 8		84	1377			84	1354
P 9		87	1384			87	1362
P10		90	1391			90	1367
P11		93	1395			93	1373
P12		96	1400			96	1380
P13		99	1406			99	1384
P14		102	1411			102	1388
P15		105	1415			105	1391
P16		108	1418			108	1394
P17		111	1421			111	1399
P18		114	1424			114	1403
P19		117	1427			117	1406
P20		120	1428				

Pl # 14774

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