

Company W. L. Hartman Estate Lease & Well No. Panning #10  
 Elevation ---- Formation Kansas City Effective Pay - Ft. Ticket No. 12645  
 Date 10/25/81 Sec. 35 Twp. 19S Range 12W County Barton State Kansas  
 Test Approved by R. L. Schmidlapp Western Representative Vernon Wondra

Formation Test No. 1 Interval Tested from 2855 ft. to 2915 ft. Total Depth 2915 ft.  
 Packer Depth 2850 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Packer Depth 2855 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 2868 ft. Recorder Number 13403 Cap. 4050  
 Bottom Recorder Depth (Outside) 2871 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iannitti Drlg. Rig #3 Drill Collar Length - I. D. - in.  
 Mud Type salt-gel=starch Viscosity 42 Weight Pipe Length 286 I. D. 2.7 in.  
 Weight 9.7 Water Loss 9.8 cc. Drill Pipe Length 2548 I. D. 3.8 in.  
 Chlorides 60,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 60 ft. Size 5 1/2 OD in.  
 Did Well Flow? Yes 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: Gas to surface in five minutes. See attached sheet for gas measurements.

Recovered 240 ft. of gas cut and slightly oil cut mud  
 Recovered 180 ft. of oil and gas cut mud  
 Recovered 730 ft. of gas cut and oil cut water Chlorides 131,000 ppm  
 Recovered        ft. of         
 Recovered        ft. of         
 Remarks: Read bottom chart

Time Set Packer(s) 2:35 ~~AM~~ P.M. Time Started Off Bottom 4:35 ~~AM~~ P.M. Maximum Temperature 96°  
 Initial Hydrostatic Pressure ..... (A) 1459 P.S.I.  
 Initial Flow Period ..... Minutes 90 (B) 170 P.S.I. to (C) 430 P.S.I.  
 Initial Closed In Period ..... Minutes 33 (D) 667 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 ..... (H) 1459 P.S.I.



**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 10/25/81 Test Ticket No. 12645  
 Recorder No. 6074 Capacity 5100 Location 2871 Ft.  
 Clock No. - Elevation --- Well Temperature 96° °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1459</u> P.S.I.	Open Tool	<u>2:35P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>170</u> P.S.I.	First Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
C. First Final Flow Pressure	<u>430</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D. Initial Closed-in Pressure	<u>667</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>1459</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 18 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

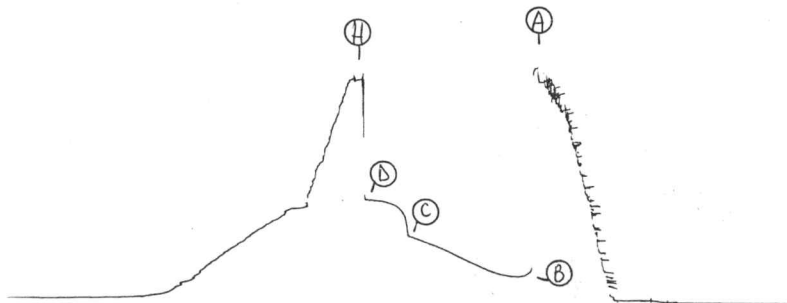
**Initial Shut-In**  
 Breakdown: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

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

**Final Shut-In**  
 Breakdown: 0 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>0</u>	<u>430</u>				
P 2	<u>5</u>	<u>3</u>	<u>558</u>				
P 3	<u>10</u>	<u>6</u>	<u>598</u>				
P 4	<u>15</u>	<u>9</u>	<u>624</u>				
P 5	<u>20</u>	<u>12</u>	<u>637</u>				
P 6	<u>25</u>	<u>15</u>	<u>647</u>				
P 7	<u>30</u>	<u>18</u>	<u>655</u>				
P 8	<u>35</u>	<u>21</u>	<u>661</u>				
P 9	<u>40</u>	<u>24</u>	<u>664</u>				
P10	<u>45</u>	<u>27</u>	<u>667</u>				
P11	<u>50</u>	<u>30</u>	<u>667</u>				
P12	<u>55</u>	<u>33</u>	<u>667</u>				
P13	<u>60</u>						
P14	<u>65</u>						
P15	<u>70</u>						
P16	<u>75</u>						
P17	<u>80</u>						
P18	<u>85</u>						
P19	<u>90</u>						
P20							

TKT # 12645



12/1

Company W. L. Hartman Estate Lease & Well No. Panning #10

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 12646

Date 10/26/81 Sec. 35 Twp. 19S Range 12W County Barton State Kansas

Test Approved by R L Schmidlapp Western Representative Vernon Wondra

Formation Test No. 2 Interval Tested from 3090 ft. to 3125 ft. Total Depth 3125 ft.

Packer Depth 3090 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3095 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3115 ft. Recorder Number 13403 Cap. 4050

Bottom Recorder Depth (Outside) 3118 ft. Recorder Number 6074 Cap. 5100

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

Drilling Contractor Woodman-Tammitti Rig #3 Drill Collar Length - I. D. - in.

Mud Type Salt-Gel-Starch Viscosity 40 Weight Pipe Length 318 I. D. 2.7 in.

Weight 9.5 Water Loss 10.2 cc. Drill Pipe Length 2751 I. D. 3.8 in.

Chlorides 60,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 35 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: Gas to surface in 22 minutes. See attached sheet for gas measurements.

Recovered 180 ft. of gas cut & slightly oil cut mud

Recovered 500 ft. of gas cut water - trace of oil Chlorides 125,000 PPM

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Remarks:         

Time Set Packer(s) 2:25 A.M. Time Started Off Bottom 4:25 P.M. Maximum Temperature 99

Initial Hydrostatic Pressure          (A) 1694 P.S.I.

Initial Flow Period          Minutes 90 (B) 153 P.S.I. to (C) 323 P.S.I.

Initial Closed In Period          Minutes 30 (D) 537 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          (H) 1593 P.S.I.



**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 10/26/81 Test Ticket No. 12646  
 Recorder No. 13403 Capacity 4050 Location 3115 Ft.  
 Clock No. - Elevation - Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1694</u> P.S.I.	Open Tool	<u>2:25P</u> M	
B First Initial Flow Pressure	<u>153</u> P.S.I.	First Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
C First Final Flow Pressure	<u>323</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>537</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>1593</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 final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		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>153</u>	<u>0</u>	<u>323</u>					
P 2 <u>5</u>	<u>153</u>	<u>3</u>	<u>386</u>					
P 3 <u>10</u>	<u>153</u>	<u>6</u>	<u>437</u>					
P 4 <u>15</u>	<u>155</u>	<u>9</u>	<u>469</u>					
P 5 <u>20</u>	<u>165</u>	<u>12</u>	<u>487</u>					
P 6 <u>25</u>	<u>182</u>	<u>15</u>	<u>500</u>					
P 7 <u>30</u>	<u>194</u>	<u>18</u>	<u>511</u>					
P 8 <u>35</u>	<u>210</u>	<u>21</u>	<u>521</u>					
P 9 <u>40</u>	<u>224</u>	<u>24</u>	<u>529</u>					
P10 <u>45</u>	<u>239</u>	<u>27</u>	<u>533</u>					
P11 <u>50</u>	<u>251</u>	<u>30</u>	<u>537</u>					
P12 <u>55</u>	<u>263</u>							
P13 <u>60</u>	<u>273</u>							
P14 <u>65</u>	<u>283</u>							
P15 <u>70</u>	<u>293</u>							
P16 <u>75</u>	<u>303</u>							
P17 <u>80</u>	<u>312</u>							
P18 <u>85</u>	<u>320</u>							
P19 <u>90</u>	<u>323</u>							
P20								



Company W. L. Hartman Estate Lease & Well No. Parning #10  
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 12647  
 Date 10/27/81 Sec. 35 Twp. 19S Range 12W County Barton State Kansas  
 Test Approved by R L Schmidlapp Western Representative Vernon Wondra

Formation Test No. 3 Interval Tested from 3130 ft. to 3170 ft. Total Depth 3170 ft.  
 Packer Depth 3125 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Packer Depth 3130 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3160 ft. Recorder Number 13403 Cap. 4050  
 Bottom Recorder Depth (Outside) 3163 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor Woodman-Tannitti Rig #3 Drill Collar Length - I. D. - in.  
 Mud Type Salt-Gel-Starch Viscosity 44 Weight Pipe Length 318 I. D. 2.7 in.  
 Weight 9.7 Water Loss 6.0 cc. Drill Pipe Length 2791 I. D. 3.8 in.  
 Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 40 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: Initial flow period very weak blow died in 5 minutes. Flushed tool - very weak blow died in 10 minutes.

Recovered 90 ft. of mud with few spots of oil  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Remarks: Picked up fluid on flush.

Time Set Packer(s) 7:10 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 8:25 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 100  
 Initial Hydrostatic Pressure ..... (A) 1643 P.S.I.  
 Initial Flow Period ..... Minutes 55 (B) 61 P.S.I. to (C) 80 P.S.I.  
 Initial Closed In Period ..... Minutes 18 (D) 99 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 ..... (H) 1602 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/27/81 Test Ticket No. 12647  
 Recorder No. 13403 Capacity 4050 Location 3160 Ft.  
 Clock No. - Elevation - Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1643</u>	P.S.I.	<u>7:10A</u>	<u>M</u>
B. First Initial Flow Pressure	<u>61</u>	P.S.I.	<u>60</u>	<u>Mins. 55</u> Mins.
C. First Final Flow Pressure	<u>80</u>	P.S.I.	<u>30</u>	<u>Mins. 18</u> Mins.
D. Initial Closed-in Pressure	<u>99</u>	P.S.I.	<u>-</u>	<u>Mins. -</u> Mins.
E. Second Initial Flow Pressure	<u>-</u>	P.S.I.	<u>-</u>	<u>Mins. -</u> Mins.
F. Second Final Flow Pressure	<u>-</u>	P.S.I.	<u>-</u>	<u>Mins. -</u> Mins.
G. Final Closed-in Pressure	<u>-</u>	P.S.I.	<u>-</u>	<u>Mins. -</u> Mins.
H. Final Hydrostatic Mud	<u>1602</u>	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In  
 Breakdown: 6 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

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

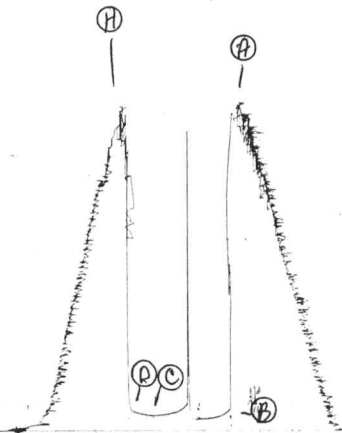
Final Shut-In  
 Breakdown: 0 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>61</u>	<u>0</u>	<u>80</u>				
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>80</u>				
P 3 <u>10</u>	<u>61</u>	<u>6</u>	<u>82</u>				
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>87</u>				
P 5 <u>20</u>	<u>61</u>	<u>12</u>	<u>92</u>				
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>97</u>				
P 7 <u>30</u>	<u>Flushed Tool</u>	<u>18</u>	<u>99</u>				
P 8 <u>35</u>	<u>116</u>						
P 9 <u>40</u>	<u>96</u>						
P10 <u>45</u>	<u>88</u>						
P11 <u>50</u>	<u>83</u>						
P12 <u>55</u>	<u>80</u>						
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

PK # 12647

I

W



Company W. L. Hartman Estate Lease & Well No. Panning #10  
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 12648  
 Date 10/28/81 Sec. 35 Twp. 19S Range 12W County Barton State Kansas  
 Test Approved by R L Schmidlapp Western Representative Vernon Wondra

Formation Test No. 4 Interval Tested from 3216 ft. to 3280 ft. Total Depth 3280 ft.  
 Packer Depth 3211 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Packer Depth 3216 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3232 ft. Recorder Number 13403 Cap. 4050  
 Bottom Recorder Depth (Outside) 3235 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman-Tannitti Rig #3 Drill Collar Length - I. D. - in.  
 Mud Type Salt-Gel-Starch Viscosity 46 Weight Pipe Length 286 I. D. 2.7 in.  
 Weight 9.7 Water Loss 6.0 cc. Drill Pipe Length 2909 I. D. 3.8 in.  
 Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 64 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: Strong blow throughout test.

Recovered 500 ft. of gas  
 Recovered 90 ft. of gas cut & slightly oil cut mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

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

Time Set Packer(s) 1:25 A.M. / P.M. Time Started Off Bottom 4:25 A.M. / P.M. Maximum Temperature 102  
 Initial Hydrostatic Pressure (A) 1663 P.S.I.  
 Initial Flow Period Minutes 30 (B) 53 P.S.I. to (C) 53 P.S.I.  
 Initial Closed In Period Minutes 27 (D) 149 P.S.I.  
 Final Flow Period Minutes 85 (E) 57 P.S.I. to (F) 61 P.S.I.  
 Final Closed In Period Minutes 30 (G) 127 P.S.I.  
 Final Hydrostatic Pressure (H) 1633 P.S.I.

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

Date 10/28/81

Recorder No. 13403

Capacity 4050

Test Ticker No. 12648

Clock No. - Elevation -

Location 3232 Ft.

Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1663</u>	P.S.I.	<u>1:25A</u>	
B. First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>30</u>	<u>30</u>
C. First Final Flow Pressure	<u>53</u>	P.S.I.	<u>30</u>	<u>27</u>
D. Initial Closed-in Pressure	<u>149</u>	P.S.I.	<u>90</u>	<u>85</u>
E. Second Initial Flow Pressure	<u>57</u>	P.S.I.	<u>30</u>	<u>30</u>
F. Second Final Flow Pressure	<u>61</u>	P.S.I.		
G. Final Closed-in Pressure	<u>127</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1633</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: 9 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

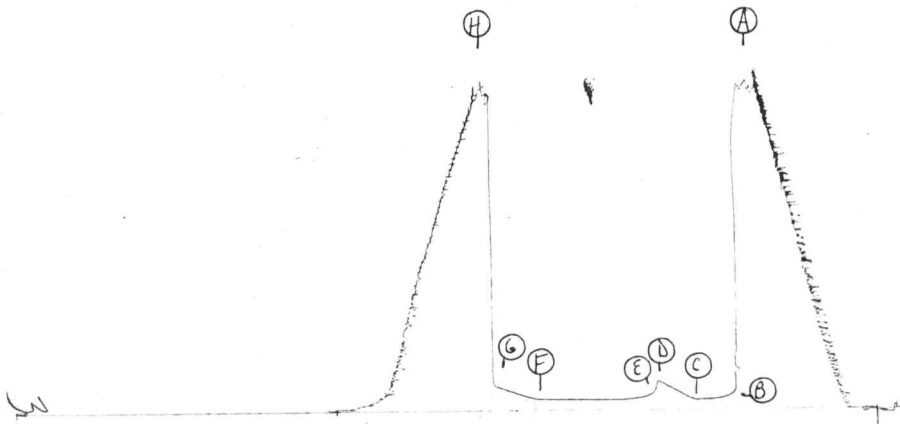
**Second Flow Pressure**  
Breakdown: 17 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 10 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>53</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>61</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>59</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>65</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>67</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>69</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>80</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>78</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>92</u>	<u>20</u>	<u>57</u>	<u>12</u>	<u>84</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>103</u>	<u>25</u>	<u>57</u>	<u>15</u>	<u>92</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>115</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>98</u>
P 8		<u>21</u>	<u>126</u>	<u>35</u>	<u>57</u>	<u>21</u>	<u>104</u>
P 9		<u>24</u>	<u>139</u>	<u>40</u>	<u>57</u>	<u>24</u>	<u>112</u>
P10		<u>27</u>	<u>149</u>	<u>45</u>	<u>57</u>	<u>27</u>	<u>120</u>
P11				<u>50</u>	<u>58</u>	<u>30</u>	<u>127</u>
P12				<u>55</u>	<u>58</u>		
P13				<u>60</u>	<u>59</u>		
P14				<u>65</u>	<u>59</u>		
P15				<u>70</u>	<u>60</u>		
P16				<u>75</u>	<u>60</u>		
P17				<u>80</u>	<u>61</u>		
P18				<u>85</u>	<u>61</u>		
P19							
P20							

TKT # 12648

I



Company W. L. Hartman Estate Lease & Well No. Panning #10  
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 12649  
 Date 10/28/81 Sec. 35 Twp. 19S Range 12W County Barton State Kansas  
 Test Approved by R L Schmidlapp Western Representative Vernon Wondra  
 Formation Test No. 5 Interval Tested from 3276 ft. to 3330 ft. Total Depth 3330 ft.  
 Packer Depth 3271 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Packer Depth 3276 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3282 ft. Recorder Number 13403 Cap. 4050  
 Bottom Recorder Depth (Outside) 3285 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
 Drilling Contractor Woodman-Iannitti Rig #3 Drill Collar Length - I. D. - in.  
 Mud Type Salt-Gel-Starch Viscosity 44 Weight Pipe Length 254 I. D. 2.7 in.  
 Weight 9.6 Water Loss 4.4 cc. Drill Pipe Length 3001 I. D. 3.8 in.  
 Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 54 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: Very weak blow throughout test.

Recovered 120 ft. of gas  
 Recovered 30 ft. of slightly oil & gas cut mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

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

Time Set Packer(s) 6:25 A.M. Time Started Off Bottom 8:25 P.M. Maximum Temperature 102  
 Initial Hydrostatic Pressure ..... (A) 1683 P.S.I.  
 Initial Flow Period ..... Minutes 90 (B) 35 P.S.I. to (C) 37 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 48 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 ..... (H) 1663 P.S.I.

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

Date 10/28/81

Test Ticket No. 12649

Recorder No. 13403

Capacity 4050 Location 3282 Ft.

Clock No. -

Elevation - Well Temperature 102 °F

Point	Pressure			Time Given	Time Computed
				M	Mins.
A Initial Hydrostatic Mud	<u>1683</u>	P.S.I.	Open Tool	<u>6:25</u>	
B First Initial Flow Pressure	<u>35</u>	P.S.I.	First Flow Pressure	<u>90</u>	<u>90</u>
C First Final Flow Pressure	<u>37</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>48</u>	P.S.I.	Second Flow Pressure	<u>-</u>	<u>-</u>
E Second Initial Flow Pressure	<u>-</u>	P.S.I.	Final Closed-in Pressure	<u>-</u>	<u>-</u>
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>1663</u>	P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 18 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

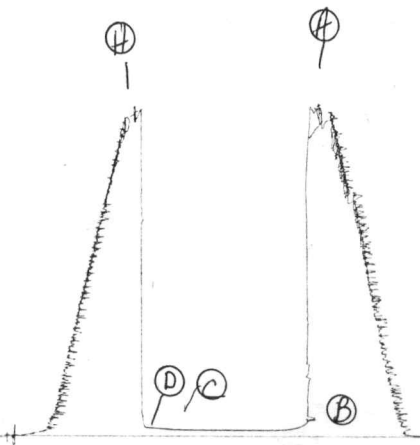
**Initial Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

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

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

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	35	0	37				
P 2	5	35	3	38				
P 3	10	35	6	38				
P 4	15	35	9	39				
P 5	20	35	12	41				
P 6	25	35	15	43				
P 7	30	35	18	44				
P 8	35	35	21	45				
P 9	40	35	24	46				
P10	45	35	27	47				
P11	50	35	30	48				
P12	55	35						
P13	60	35						
P14	65	35						
P15	70	35						
P16	75	35						
P17	80	36						
P18	85	37						
P19	90	37						
P20								

PK # 12649  
I



Company W. L. Hartman Estate Lease & Well No. Panning #10

Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 12650

Date 10/29/81 Sec. 35 Twp. 19S Range 12W County Barton State Kansas

Test Approved by R L Schmidlapp Western Representative Vernon Wondra

Formation Test No. 6 Interval Tested from 3326 ft. to 3376 ft. Total Depth 3376 ft.

Packer Depth 3321 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3326 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3329 ft. Recorder Number 14303 Cap. 4050

Bottom Recorder Depth (Outside) 3332 ft. Recorder Number 6074 Cap. 5100

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

Drilling Contractor Woodman-Tannitti Rig #3 Drill Collar Length - I. D. - in.

Mud Type Salt-Gel-Starch Viscosity 46 Weight Pipe Length 254 I. D. 2.7 in.

Weight 9.7 Water Loss 4.0 cc. Drill Pipe Length 3051 I. D. 3.8 in.

Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 50 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 FH in.

Blow: Strong blow throughout test

Recovered 1850 ft. of water Chlorides 23,000 PPM

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Remarks:         

Time Set Packer(s) 4:15 A.M. Time Started Off Bottom 6:15 A.M. Maximum Temperature 101  
P.M. P.M.

Initial Hydrostatic Pressure          (A) 1743 P.S.I.

Initial Flow Period          Minutes 85 (B) 142 P.S.I. to (C) 826 P.S.I.

Initial Closed In Period          Minutes 30 (D) 1026 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          (H) 1673 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 10/29/81 Test Ticket No. 12650  
 Recorder No. 13403 Capacity 4050 Location 3329 Ft.  
 Clock No. - Elevation - Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1743</u> P.S.I.	Open Tool	<u>4:15P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>142</u> P.S.I.	First Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
C. First Final Flow Pressure	<u>826</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>1026</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>1673</u> P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: <u>17</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>0</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>0</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Point Minutes	Point Minutes
P 1 <u>0</u>	<u>142</u>	<u>0</u>		
P 2 <u>5</u>	<u>243</u>	<u>3</u>		
P 3 <u>10</u>	<u>269</u>	<u>6</u>		
P 4 <u>15</u>	<u>318</u>	<u>9</u>		
P 5 <u>20</u>	<u>376</u>	<u>12</u>		
P 6 <u>25</u>	<u>427</u>	<u>15</u>		
P 7 <u>30</u>	<u>478</u>	<u>18</u>		
P 8 <u>35</u>	<u>523</u>	<u>21</u>		
P 9 <u>40</u>	<u>564</u>	<u>24</u>		
P10 <u>45</u>	<u>603</u>	<u>27</u>		
P11 <u>50</u>	<u>644</u>	<u>30</u>		
P12 <u>55</u>	<u>675</u>			
P13 <u>60</u>	<u>704</u>			
P14 <u>65</u>	<u>735</u>			
P15 <u>70</u>	<u>759</u>			
P16 <u>75</u>	<u>783</u>			
P17 <u>80</u>	<u>807</u>			
P18 <u>85</u>	<u>826</u>			
P19				
P20				

TKT # 12650

I

