

Company W. L. Hartman Estate Lease & Well No. #11 Panning
 Elevation ---- Formation ---- Effective Pay ---- Ft. Ticket No. 17262
 Date 8/ 15/82 Sec. 35 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by R. L. Schmidlapp Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 3083 ft. to 3130 ft. Total Depth 3130 ft.
 Packer Depth 3078 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3083 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3086 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3089 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iannitti Drlg. Rig #3 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 40 Weight Pipe Length 360 I. D. 2.7 in.
 Weight 9.9 Water Loss 6.4 cc. Drill Pipe Length 2702 I. D. 3.8 in.
 Chlorides 66,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 47 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period fair blow building to strong blow in four minutes. Strong blow through-
out final flow period.

Recovered 120 ft. of gas in pipe
 Recovered 160 ft. of heavy gas cut watery mud
 Recovered 160 ft. of gas cut muddy water
 Recovered 300 ft. of salt water
 Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 9:20 ~~A.M.~~ P.M. Time Started Off Bottom 11:56 ~~A.M.~~ P.M. Maximum Temperature 106°
 Initial Hydrostatic Pressure (A) 1670 P.S.I.
 Initial Flow Period Minutes 35 (B) 96 P.S.I. to (C) 214 P.S.I.
 Initial Closed In Period Minutes 30 (D) 532 P.S.I.
 Final Flow Period Minutes 60 (E) 255 P.S.I. to (F) 340 P.S.I.
 Final Closed In Period Minutes 30 (G) 499 P.S.I.
 Final Hydrostatic Pressure (H) 1654 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/15/82 Test Ticket No. 17262
 Recorder No. 13269 Capacity 4375 Location 3086 Ft.
 Clock No. --- Elevation --- Well Temperature 106 °F

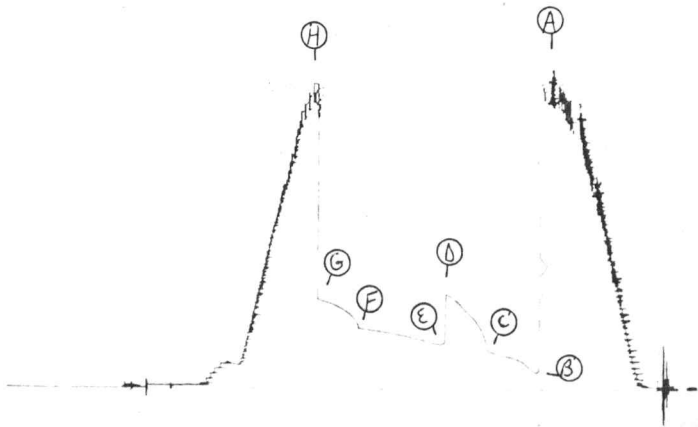
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1670	P.S.I.	9:20P	M
B First Initial Flow Pressure	96	P.S.I.	35	Mins. 35 Mins.
C First Final Flow Pressure	214	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	532	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	255	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	340	P.S.I.		
G Final Closed-in Pressure	499	P.S.I.		
H Final Hydrostatic Mud	1654	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</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	0	0	214	0	255	0	340
P 2	5	3	310	5	255	3	392
P 3	10	6	354	10	263	6	416
P 4	15	9	384	15	274	9	434
P 5	20	12	409	20	285	12	448
P 6	25	15	431	25	294	15	459
P 7	30	18	452	30	303	18	470
P 8	35	21	480	35	310	21	479
P 9		24	498	40	317	24	487
P10		27	515	45	324	27	493
P11		30	532	50	329	30	499
P12				55	334		
P13				60	340		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 17262

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13269

Company W. L. Hartman Estate Lease & Well No. #11 Paming
 Elevation ---- Formation --- Effective Pay ---- Ft. Ticket No. 17263
 Date 8/ 16/82 Sec. 35 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by R. L. Schmidlapp Western Representative Ray Schwager

Formation Test No. 2 Interval Tested from 3135 ft. to 3175 ft. Total Depth 3175 ft.
 Packer Depth 3130 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3135 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3138 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3141 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iannitti Drlg. Rig #3 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 43 Weight Pipe Length 360 I. D. 2.7 in.
 Weight 9.8 Water Loss 4 cc. Drill Pipe Length 2754 I. D. 3.8 in.
 Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 40 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period strong blow throughout. Strong blow throughout final flow period.
Gas to surface in twenty-four minutes. See attached sheet for gas measurements.

Recovered 150 ft. of oil and gas cut watery mud 32% mud;12% water;10% oil;46% gas
 Recovered 120 ft. of heavy gas cut watery oil 5% mud;15% water;20% oil;60% gas
 Recovered 120 ft. of slat water
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 2:25 ~~A.M.~~ P.M. Time Started Off Bottom 4:45 ~~A.M.~~ P.M. Maximum Temperature 98°
 Initial Hydrostatic Pressure 1647 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 72 P.S.I. to (C) 115 P.S.I.
 Initial Closed In Period 21 Minutes (D) 616 P.S.I.
 Final Flow Period 60 Minutes (E) 130 P.S.I. to (F) 176 P.S.I.
 Final Closed In Period 30 Minutes (G) 583 P.S.I.
 Final Hydrostatic Pressure 1596 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8/16/82 Test Ticket No. 17263
 Recorder No. 13269 Capacity 4375 Location 3138 Ft.
 Clock No. -- Elevation -- Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1647</u> P.S.I.	Open Tool	<u>2:25P</u>	<u>M</u>
B First Initial Flow Pressure	<u>72</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>115</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>616</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>130</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>176</u> P.S.I.			
G Final Closed-in Pressure	<u>583</u> P.S.I.			
H Final Hydrostatic Mud	<u>1596</u> P.S.I.			

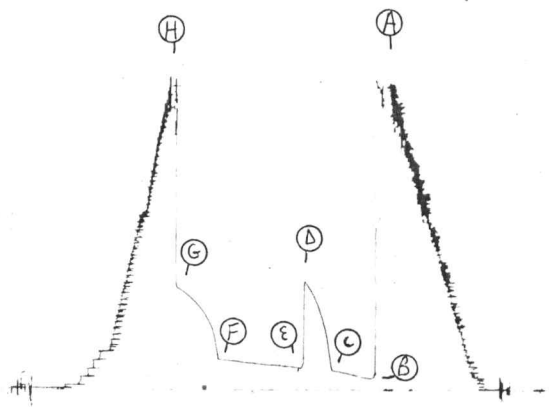
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u>		of <u>7</u>		of <u>12</u>		of <u>10</u>	
	mins. and a		mins. and a		mins. and a		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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>72</u>	<u>0</u>	<u>115</u>	<u>0</u>	<u>130</u>	<u>0</u>	<u>176</u>	<u>0</u>
P 2	<u>73</u>	<u>3</u>	<u>192</u>	<u>3</u>	<u>133</u>	<u>3</u>	<u>328</u>	<u>3</u>
P 3	<u>79</u>	<u>6</u>	<u>332</u>	<u>6</u>	<u>137</u>	<u>6</u>	<u>388</u>	<u>6</u>
P 4	<u>89</u>	<u>9</u>	<u>418</u>	<u>9</u>	<u>140</u>	<u>9</u>	<u>429</u>	<u>9</u>
P 5	<u>98</u>	<u>12</u>	<u>488</u>	<u>12</u>	<u>143</u>	<u>12</u>	<u>463</u>	<u>12</u>
P 6	<u>106</u>	<u>15</u>	<u>542</u>	<u>15</u>	<u>146</u>	<u>15</u>	<u>489</u>	<u>15</u>
P 7	<u>115</u>	<u>18</u>	<u>583</u>	<u>18</u>	<u>149</u>	<u>18</u>	<u>515</u>	<u>18</u>
P 8		<u>21</u>	<u>616</u>	<u>21</u>	<u>153</u>	<u>21</u>	<u>536</u>	<u>21</u>
P 9					<u>158</u>	<u>24</u>	<u>554</u>	<u>24</u>
P10					<u>163</u>	<u>27</u>	<u>571</u>	<u>27</u>
P11					<u>168</u>	<u>30</u>	<u>583</u>	<u>30</u>
P12					<u>172</u>			
P13					<u>176</u>			
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 17263

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13269



Company W. L. Hartman Estate Lease & Well No. #11 Panning
 Elevation ---- Formation ---- Effective Pay ---- Ft. Ticket No. 17264
 Date 8/17/82 Sec. 35 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by R. L. Schmidlapp Western Representative Ray Schwager

Formation Test No. 3 Interval Tested from 3224 ft. to 3285 ft. Total Depth 3285 ft.
 Packer Depth 3219 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3224 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3240 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3243 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iannitti Drlg. Rig #3 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity - Weight Pipe Length 360 I. D. 2.7 in.
 Weight - Water Loss - cc. Drill Pipe Length 2843 I. D. 3.8 in.
 Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 61 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period weak building to strong blow in four minutes. Strong blow throughout final flow period.

Recovered 60 ft. of gas in pipe
 Recovered 180 ft. of muddy water
 Recovered 300 ft. of salt water Chlorides 61,000 ppm
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 12:40 ~~A.M.~~ P.M. Maximum Temperature 106°
 Initial Hydrostatic Pressure (A) 1722 P.S.I.
 Initial Flow Period Minutes 10 (B) 85 P.S.I. to (C) 110 P.S.I.
 Initial Closed In Period Minutes 30 (D) 561 P.S.I.
 Final Flow Period Minutes 60 (E) 156 P.S.I. to (F) 269 P.S.I.
 Final Closed In Period Minutes 30 (G) 529 P.S.I.
 Final Hydrostatic Pressure (H) 1690 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/17/82

Test Ticket No. 17264

Recorder No. 13269

Capacity 4375

Location 3240 Ft.

Clock No. -- Elevation ---

Well Temperature 106 °F

Point	Pressure		Time Given		Time Computed	
			A	M	Mins	Mins
A Initial Hydrostatic Mud	<u>1722</u>	P.S.I.	<u>10:30</u>			
B First Initial Flow Pressure	<u>85</u>	P.S.I.	<u>10</u>		<u>10</u>	
C First Final Flow Pressure	<u>110</u>	P.S.I.	<u>30</u>		<u>30</u>	
D Initial Closed-in Pressure	<u>561</u>	P.S.I.	<u>60</u>		<u>60</u>	
E Second Initial Flow Pressure	<u>156</u>	P.S.I.	<u>30</u>		<u>30</u>	
F Second Final Flow Pressure	<u>269</u>	P.S.I.				
G Final Closed-in Pressure	<u>529</u>	P.S.I.				
H Final Hydrostatic Mud	<u>1690</u>	P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 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: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

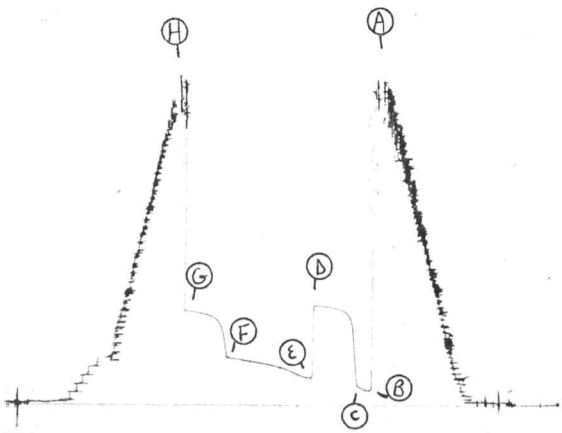
Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>85</u>	<u>0</u>	<u>110</u>	<u>0</u>	<u>156</u>	<u>0</u>	<u>269</u>
P 2 <u>5</u>	<u>90</u>	<u>3</u>	<u>463</u>	<u>5</u>	<u>160</u>	<u>3</u>	<u>436</u>
P 3 <u>10</u>	<u>110</u>	<u>6</u>	<u>513</u>	<u>10</u>	<u>173</u>	<u>6</u>	<u>476</u>
P 4		<u>9</u>	<u>534</u>	<u>15</u>	<u>192</u>	<u>9</u>	<u>495</u>
P 5		<u>12</u>	<u>543</u>	<u>20</u>	<u>208</u>	<u>12</u>	<u>506</u>
P 6		<u>15</u>	<u>549</u>	<u>25</u>	<u>219</u>	<u>15</u>	<u>513</u>
P 7		<u>18</u>	<u>553</u>	<u>30</u>	<u>228</u>	<u>18</u>	<u>520</u>
P 8		<u>21</u>	<u>555</u>	<u>35</u>	<u>236</u>	<u>21</u>	<u>523</u>
P 9		<u>24</u>	<u>557</u>	<u>40</u>	<u>242</u>	<u>24</u>	<u>525</u>
P10		<u>27</u>	<u>559</u>	<u>45</u>	<u>248</u>	<u>27</u>	<u>527</u>
P11		<u>30</u>	<u>561</u>	<u>50</u>	<u>255</u>	<u>30</u>	<u>529</u>
P12				<u>55</u>	<u>261</u>		
P13				<u>60</u>	<u>269</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 17264

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17264



Company W. L. Hartman Estate Lease & Well No. #11 Parning
 Elevation ---- Formation --- Effective Pay ---- Ft. Ticket No. 17265
 Date 8/ 18 /82 Sec. 35 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by R. L. Schmidlapp Western Representative Ray Schwager

Formation Test No. 4 Interval Tested from 3290 ft. to 3341 ft. Total Depth 3341 ft.
 Packer Depth 3285 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3290 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3293 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3296 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iannitti Drlg. Rig #3 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 46 Weight Pipe Length 360 I. D. 2.7 in.
 Weight 9.7 Water Loss 5.6 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 in.
 Jars: Make - Serial Number - Anchor Length 51 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period very weak blow died in twenty-five minutes. Flushed tool.

Recovered 55 ft. of thin mud with few oil specks Chlorides 61,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 3:45 A.M. Time Started Off Bottom 5:15 P.M. Maximum Temperature 104°
 Initial Hydrostatic Pressure (A) 1753 P.S.I.
 Initial Flow Period Minutes 65 (B) 42 P.S.I. to (C) 66 P.S.I.
 Initial Closed In Period Minutes 30 (D) 255 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) 1747 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/18/82

Test Ticket No. 17265

Recorder No. 13269

Capacity 4375

Location 3293 Ft.

Clock No. -- Elevation ---

Well Temperature 104 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1753</u>	P.S.I.	Open Tool	<u>3:45A</u>	<u>M</u>
B First Initial Flow Pressure	<u>42</u>	P.S.I.	First Flow Pressure	<u>60</u>	Mins. <u>65</u> Mins.
C First Final Flow Pressure	<u>66</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>255</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>1747</u>	P.S.I.			

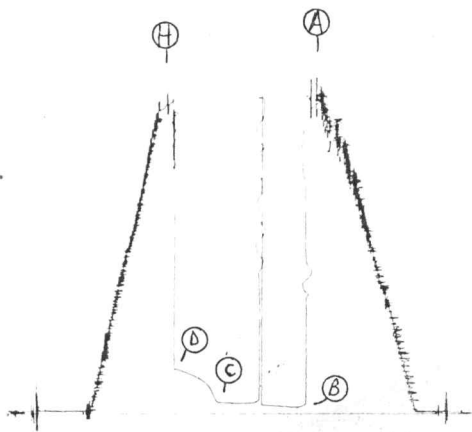
PRESSURE BREAKDOWN

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		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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>42</u>	<u>0</u>	<u>66</u>	<u>0</u>				
P 2	<u>42</u>	<u>3</u>	<u>108</u>	<u>3</u>				
P 3	<u>42</u>	<u>6</u>	<u>154</u>	<u>6</u>				
P 4	<u>44</u>	<u>9</u>	<u>180</u>	<u>9</u>				
P 5	<u>46</u>	<u>12</u>	<u>197</u>	<u>12</u>				
P 6	<u>49</u>	<u>15</u>	<u>210</u>	<u>15</u>				
P 7	<u>52</u>	<u>18</u>	<u>221</u>	<u>18</u>				
P 8	<u>60</u>	<u>21</u>	<u>230</u>	<u>21</u>				
P 9	<u>60</u>	<u>24</u>	<u>239</u>	<u>24</u>				
P10	<u>63</u>	<u>27</u>	<u>248</u>	<u>27</u>				
P11	<u>63</u>	<u>30</u>	<u>255</u>	<u>30</u>				
P12	<u>64</u>							
P13	<u>65</u>							
P14	<u>66</u>							
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 17265

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• 13269



Company W. L. Hartman Estate Lease & Well No. #11 Panning
 Elevation ---- Formation ---- Effective Pay ---- Ft. Ticket No. 17266
 Date 8/ 18 /82 Sec. 35 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by R. L. Schmidlapp Western Representative Ray Schwager

Formation Test No. 5 Interval Tested from 3328 ft. to 3350 ft. Total Depth 3350 ft.
 Packer Depth 3323 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3328 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3340 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3343 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iannitti Drlg. Rig #3 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 47 Weight Pipe Length 360 I. D. 2.7 in.
 Weight 9.8 Water Loss 4 cc. Drill Pipe Length 2927 I. D. 3.8 in.
 Chlorides 63,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 22 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period very weak blow one fourth inch and died in fifty-six minutes.
Flushed tool got weak blow and died in twenty minutes.

Recovered 65 ft. of muddy oil 35% mud; 5% gas; 60% oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:00 ~~A.M.~~ P.M. Time Started Off Bottom 8:00 ~~A.M.~~ P.M. Maximum Temperature 89°
 Initial Hydrostatic Pressure 1741 P.S.I. (A)
 Initial Flow Period 95 Minutes (B) 42 P.S.I. to (C) 62 P.S.I.
 Initial Closed In Period 33 Minutes (D) 706 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 1717 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8/18/82 Test Ticket No. 17266
 Recorder No. 13269 Capacity 4375 Location 3340 Ft.
 Clock No. -- Elevation -- Well Temperature 89 °F

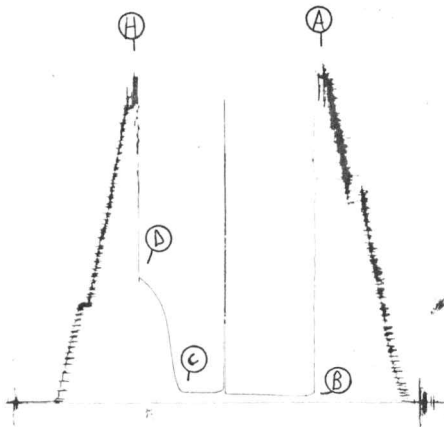
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1741</u> P.S.I.	Open Tool	<u>6:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>42</u> P.S.I.	First Flow Pressure	<u>90</u> Mins.	<u>95</u> Mins.
C First Final Flow Pressure	<u>62</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>706</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>1717</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>19</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</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	Press.	Point Minutes	Press.
P 1	<u>42</u>	<u>0</u>	<u>62</u>		
P 2	<u>42</u>	<u>3</u>	<u>75</u>		
P 3	<u>42</u>	<u>6</u>	<u>125</u>		
P 4	<u>42</u>	<u>9</u>	<u>258</u>		
P 5	<u>43</u>	<u>12</u>	<u>423</u>		
P 6	<u>45</u>	<u>15</u>	<u>519</u>		
P 7	<u>47</u>	<u>18</u>	<u>572</u>		
P 8	<u>49</u>	<u>21</u>	<u>609</u>		
P 9	<u>51</u>	<u>24</u>	<u>639</u>		
P10	<u>52</u>	<u>27</u>	<u>667</u>		
P11	<u>52</u>	<u>30</u>	<u>688</u>		
P12	<u>53</u>	<u>33</u>	<u>706</u>		
P13	<u>53</u>				
P14	<u>54</u> Flushed tool				
P15	<u>67</u>				
P16	<u>62</u>				
P17	<u>62</u>				
P18	<u>62</u>				
P19	<u>62</u>				
P20	<u>62</u>				

TKT #17266

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Company W. L. Hartman Estate Lease & Well No. #11 Panning
 Elevation ---- Formation --- Effective Pay ---- Ft. Ticket No. 17267
 Date 8/ 19/82 Sec. 35 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by R. L. Schmidlapp Western Representative Ray Schwager

Formation Test No. 6 Interval Tested from 3358 ft. to 3370 ft. Total Depth 3370 ft.
 Packer Depth 3353 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3358 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3361 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3364 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman - Iamitti Drlg. Rig #3 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 46 Weight Pipe Length 360 I. D. 2.7 in.
 Weight 9.8 Water Loss 6.2 cc. Drill Pipe Length 2977 I. D. 3.8 in.
 Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 12 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period weak blow building to strong blow in four minutes.

Recovered 15 ft. of clean oil
 Recovered 160 ft. of muddy water
 Recovered 660 ft. of salt water Chlorides 20,000 ppm
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:50 A.M. Time Started Off Bottom 11:50 A.M. Maximum Temperature 107°
P.M. P.M.
 Initial Hydrostatic Pressure 1752 P.S.I. (A)
 Initial Flow Period 95 Minutes (B) 79 P.S.I. to (C) 374 P.S.I.
 Initial Closed In Period 30 Minutes (D) 835 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 1752 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8/19/82

Test Ticket No. 17267

Recorder No. 13269

Capacity 4375

Location 3361 Ft.

Clock No. - Elevation --

Well Temperature 107 °F

Point	Pressure		Time	
			Given	Computed
A Initial Hydrostatic Mud	<u>1752</u> P.S.I.	Open Tool	<u>9:50A</u>	<u>M</u>
B First Initial Flow Pressure	<u>79</u> P.S.I.	First Flow Pressure	<u>90</u> Mins.	<u>95</u> Mins.
C First Final Flow Pressure	<u>374</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>835</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>1752</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 19 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.

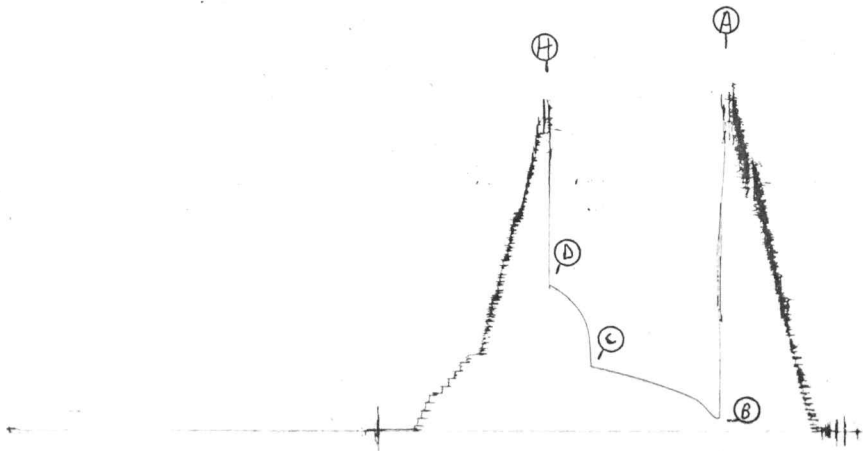
Second Flow Pressure
Breakdown: 0 Inc.
of 5 mins. and a
final inc. of 0 Min.

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	<u>0</u>	<u>79</u>	<u>0</u>	<u>374</u>				
P 2	<u>5</u>	<u>95</u>	<u>3</u>	<u>608</u>				
P 3	<u>10</u>	<u>139</u>	<u>6</u>	<u>662</u>				
P 4	<u>15</u>	<u>177</u>	<u>9</u>	<u>700</u>				
P 5	<u>20</u>	<u>198</u>	<u>12</u>	<u>728</u>				
P 6	<u>25</u>	<u>216</u>	<u>15</u>	<u>753</u>				
P 7	<u>30</u>	<u>231</u>	<u>18</u>	<u>774</u>				
P 8	<u>35</u>	<u>246</u>	<u>21</u>	<u>791</u>				
P 9	<u>40</u>	<u>259</u>	<u>24</u>	<u>810</u>				
P10	<u>45</u>	<u>272</u>	<u>27</u>	<u>823</u>				
P11	<u>50</u>	<u>284</u>	<u>30</u>	<u>835</u>				
P12	<u>55</u>	<u>296</u>						
P13	<u>60</u>	<u>308</u>						
P14	<u>65</u>	<u>318</u>						
P15	<u>70</u>	<u>328</u>						
P16	<u>75</u>	<u>338</u>						
P17	<u>80</u>	<u>348</u>						
P18	<u>85</u>	<u>358</u>						
P19	<u>90</u>	<u>368</u>						
P20	<u>95</u>	<u>374</u>						

TKT # 17267

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13260