



Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Bickrell Drilling Company Lease & Well No. Armstrong #B-1
Elevation 2191 Kelly Bushings Formation Mississippi Ticker Number 7771
Date March 9, 1967 Sec. 32 Twp. 20S Range 20W County Pawnee State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Dean Blagrove

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4352' to 4358' Total Depth 4358'
Size Main Hole 7 7/8 Rat Hole none Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐
Packer Depth 4347 Ft. Size 6 3/4 Packer Depth 4352 Ft. Size 6 3/4
Straddle Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 6 Ft. Size 5 1/2 OD
RECORDERS Depth 4341 Ft. Clock No. 6892 Depth 4355 Ft. Clock No. 6774
Top Make Amerada Cap. 4150 No. 2606 Inside ☐ Outside ☒ Bottom Make Amerada Cap. 400 No. 1567 Inside ☐ Outside ☒
Below Straddle: Depth _____ Clock No. _____ Inside ☐ Outside ☐ Depth _____ Ft. Clock No. _____ Inside ☐ Outside ☐
Top Make _____ Cap. _____ No. _____ Inside ☐ Outside ☐ Bottom Make _____ Cap. _____ No. _____ Inside ☐ Outside ☐
Time Set Packer 7:07 A M

Tool Open I.F.P. From 7:10A M to 7:20 M Hr. 10 Min. From (B) 39 P.S.I. To (C) 48 P.S.I.
Tool Closed I.C.I.P. From 7:20A M. to 7:50 M. Hr. 30 Min. (D) 1252 P.S.I.
Tool Open F.F.P. From 7:50A M. to 9:50 M. 2 Hr. Min. From (E) 81 P.S.I. To (F) 273 P.S.I.
Tool Closed F.C.I.P. From 9:50A M. to 10:50A M. 1 Hr. Min. (G) 1200 P.S.I.
Initial Hydrostatic Pressure (A) 2329 P.S.I. Final Hydrostatic Pressure (H) 2301 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak increasing to good. Bottom Choke Size 3/4 In.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 530' gas in pipe; 510' clean gassy oil; 70' muddy oil; 90' water. Mud

Reversed Out Yes ☐ No ☐ Mud Type starch Viscosity 43 Weight 10.0 Maximum Temp. 125 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make _____ Ser. No. _____

Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe _____ ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 915 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 29 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date March 9, 1967 Test Ticket No. 7771
 Recorder No. 2606 Capacity 4150 Location 4341 Ft. 125
 Clock No. 6892 Elevation 2191 Kelly Bushings Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2329</u> P.S.I.	Opened Tool	<u>7:07</u> A M	
B First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1252</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>119</u> Mins.
E Second Initial Flow Pressure	<u>81</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>273</u> P.S.I.			
G Final Closed-in Pressure	<u>1200</u> P.S.I.			
H Final Hydrostatic Mud	<u>2301</u> P.S.I.			

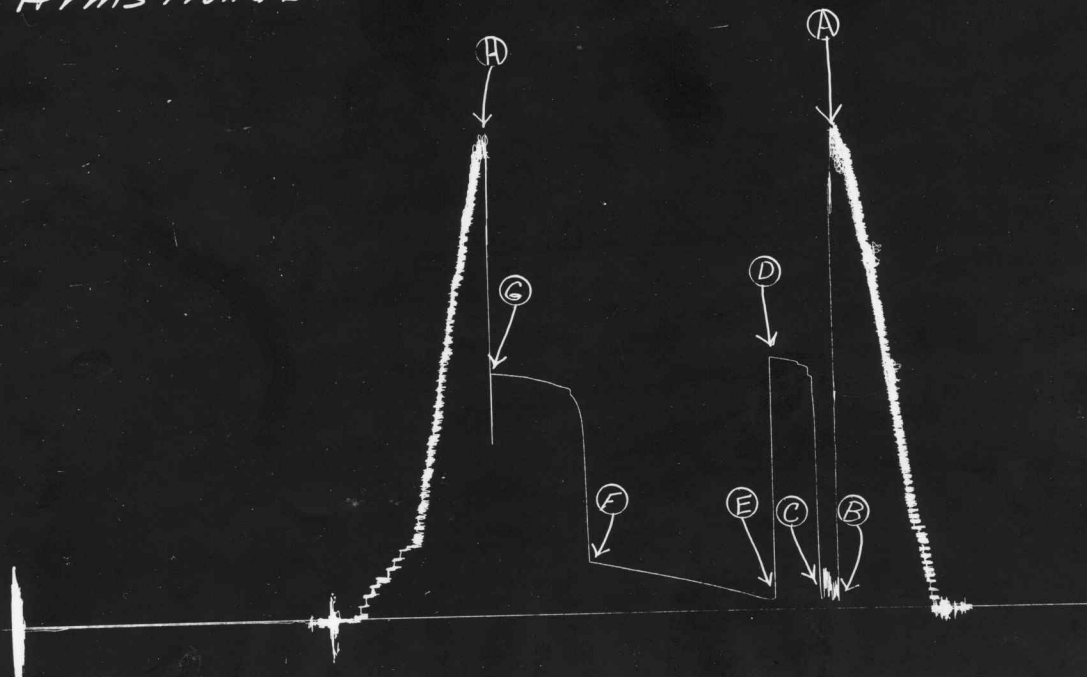
PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>2 3</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>Min.</u>		final inc. of <u>Min.</u>		final inc. of <u>4</u> Min.		final inc. of <u>Min.</u>	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>39</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>273</u>
P 2 <u>5</u>	<u>40</u>	<u>3</u>	<u>684</u>	<u>5</u>	<u>81</u>	<u>3</u>	<u>862</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>1101</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>1039</u>
P 4		<u>9</u>	<u>1167</u>	<u>15</u>	<u>95</u>	<u>9</u>	<u>1080</u>
P 5		<u>12</u>	<u>1198</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>1103</u>
P 6		<u>15</u>	<u>1215</u>	<u>25</u>	<u>114</u>	<u>15</u>	<u>1122</u>
P 7		<u>18</u>	<u>1227</u>	<u>30</u>	<u>124</u>	<u>18</u>	<u>1134</u>
P 8		<u>21</u>	<u>1285</u>	<u>35</u>	<u>135</u>	<u>21</u>	<u>1144</u>
P 9		<u>24</u>	<u>1242</u>	<u>40</u>	<u>145</u>	<u>24</u>	<u>1153</u>
P10		<u>27</u>	<u>1248</u>	<u>45</u>	<u>156</u>	<u>27</u>	<u>1159</u>
P11		<u>30</u>	<u>1252</u>	<u>50</u>	<u>163</u>	<u>30</u>	<u>1167</u>
P12				<u>55</u>	<u>172</u>	<u>33</u>	<u>1171</u>
P13				<u>60</u>	<u>180</u>	<u>36</u>	<u>1175</u>
P14				<u>65</u>	<u>189</u>	<u>39</u>	<u>1180</u>
P15				<u>70</u>	<u>197</u>	<u>42</u>	<u>1184</u>
P16				<u>75</u>	<u>205</u>	<u>45</u>	<u>1188</u>
P17				<u>80</u>	<u>214</u>	<u>48</u>	<u>1190</u>
P18				<u>85</u>	<u>221</u>	<u>51</u>	<u>1193</u>
P19				<u>90</u>	<u>229</u>	<u>54</u>	<u>1195</u>
P20				<u>95</u>	<u>238</u>	<u>57</u>	<u>1198</u>
				<u>100</u>	<u>246</u>	<u>60</u>	<u>1200</u>
				<u>105</u>	<u>254</u>		
				<u>110</u>	<u>262</u>		
				<u>115</u>	<u>268</u>		
				<u>119</u>	<u>273</u>		

Pickrell Drlg Co.
Armstrong B #1

TKT-7771

Test #1



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2329	PSI
(B) First Initial Flow Pressure	39	PSI
(C) First Final Flow Pressure	48	PSI
(D) Initial Closed-in Pressure	1252	PSI
(E) Second Initial Flow Pressure	81	PSI
(F) Second Final Flow Pressure	273	PSI
(G) Final Closed-in Pressure	1200	PSI
(H) Final Hydrostatic Mud	2301	PSI