



INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Chitwood A-#1
Elevation 1309 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 25106
Date 6-8-76 Sec. 3 Twp. 31S Range 2W County Sumner State Kansas
Test Approved by Frank M. Brooks Western Representative Roy Pendlay
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3255' to 3294' Total Depth 3294'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3250 Ft. Size 6 3/4 Bottom Packer Depth 3255 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 39 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3259 Ft. Clock No. 6896 Depth 3262 Ft. Clock No. 6866
Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside Outside
Time Set Packer 10:24 P M
Tool Open I.F.P. From 10:25P M. to 11:10P M. - Hr. 45 Min. From (B) 5 P.S.I. To (C) 24 P.S.I.
Tool Closed I.C.I.P. From 11:10M to 11:55P M. - Hr. 45 Min (D) 1167 P.S.I.
Tool Open F.F.P. From 11:55 P M. to 12:25A M. - Hr. 30 Min. From (E) 43 P.S.I. To (F) 41 P.S.I.
Tool Closed F.C.I.P. From 12:25A M. to 1:25A M. 1 Hr. - Min. (G) 1164 P.S.I.
Initial Hydrostatic Pressure (A) 1663 P.S.I. Final Hydrostatic Pressure (H) 1643 P.S.I. Maximum Temp. 112

INFORMATION

BLOW Weak blow building to a 1/2" blow in initial flow period.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 80' thin drilling mud.

Reversed Out - Yes ☒ No ☐ Mud Type chem Viscosity 36 Weight 9.7 Water Loss 15.6 cc. Chlorides 7900 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? ☐

DRILLING CONTRACTOR Rains & Williamson Oil Co. Length Drill Pipe? 2804 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars 431 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 59 Ft.

Remarks: Slid 5' to bottom.

WESTERN TESTING CO., INC.

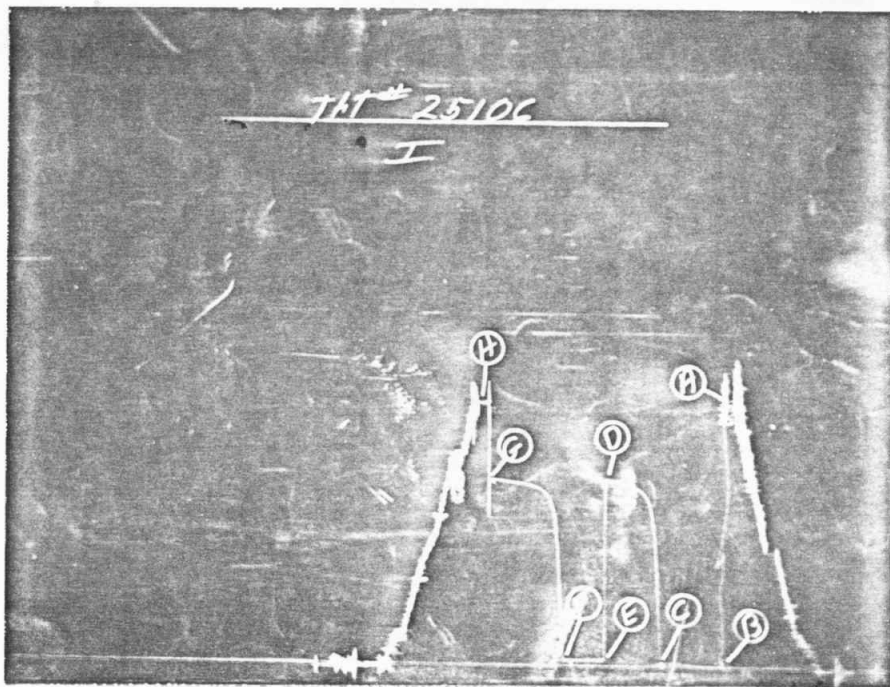
Pressure Data

Date 6-8-76 Recorder No. 3085 Capacity 4500 Test Ticket No. 25106
 Clock No. 6896 Elevation 1309 Kelly Bushing Location 3259 Ft.
 Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1663 P.S.I.	Open Tool	10:24 P M	
B First Initial Flow Pressure	5 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	24 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1167 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	43 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	41 P.S.I.			
G Final Closed-in Pressure	1164 P.S.I.			
H Final Hydrostatic Mud	1643 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</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>5</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>41</u>
P 2 <u>5</u>	<u>5</u>	<u>3</u>	<u>426</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>318</u>
P 3 <u>10</u>	<u>5</u>	<u>6</u>	<u>809</u>	<u>10</u>	<u>38</u>	<u>6</u>	<u>709</u>
P 4 <u>15</u>	<u>5</u>	<u>9</u>	<u>977</u>	<u>15</u>	<u>38</u>	<u>9</u>	<u>935</u>
P 5 <u>20</u>	<u>8</u>	<u>12</u>	<u>1049</u>	<u>20</u>	<u>38</u>	<u>12</u>	<u>1023</u>
P 6 <u>25</u>	<u>12</u>	<u>15</u>	<u>1083</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>1069</u>
P 7 <u>30</u>	<u>15</u>	<u>18</u>	<u>1103</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>1095</u>
P 8 <u>35</u>	<u>19</u>	<u>21</u>	<u>1118</u>	<u>35</u>		<u>21</u>	<u>1110</u>
P 9 <u>40</u>	<u>22</u>	<u>24</u>	<u>1129</u>	<u>40</u>		<u>24</u>	<u>1120</u>
P10 <u>45</u>	<u>24</u>	<u>27</u>	<u>1139</u>	<u>45</u>		<u>27</u>	<u>1128</u>
P11		<u>30</u>	<u>1147</u>			<u>30</u>	<u>1135</u>
P12		<u>33</u>	<u>1152</u>			<u>33</u>	<u>1139</u>
P13		<u>36</u>	<u>1159</u>			<u>36</u>	<u>1142</u>
P14		<u>39</u>	<u>1163</u>			<u>39</u>	<u>1146</u>
P15		<u>42</u>	<u>1165</u>			<u>42</u>	<u>1148</u>
P16		<u>45</u>	<u>1167</u>			<u>45</u>	<u>1152</u>
P17						<u>48</u>	<u>1155</u>
P18						<u>51</u>	<u>1159</u>
P19						<u>54</u>	<u>1162</u>
P20						<u>57</u>	<u>1163</u>
						<u>60</u>	<u>1164</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1649	1663
(B) First Initial Flow Pressure	0	5
(C) First Final Flow Pressure	11	24
(D) Initial Closed-in Pressure	1164	1167
(E) Second Initial Flow Pressure	35	43
(F) Second Final Flow Pressure	35	41
(G) Final Closed-in Pressure	1164	1164
(H) Final Hydrostatic Mud	1649	1643



INC.

P. O. Box 1599

Wichita, Kansas 67201

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Chitwood a-#1
Elevation 1309 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 24341
Date 6-11-76 Sec. 3 Twp. 31S Range 2W County Sumner State Kansas
Test Approved by Frank M. Brooks Western Representative Bill Baker
Formation Test No. 2 O.K. X Misrun - Interval Tested From 3767' to 3776' Total Depth 3776'
Size Main Hole 77/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. - B.T. - Damaged - Yes - No
Top Packer Depth 3767 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 9 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3769 Ft. Clock No. 8476 Depth 3772 Ft. Clock No. 4964
Top Make Kuster Cap. 4200 No. 1559 Inside Bottom Make Kuster Cap. 3200 No. 1561 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Inside
Time Set Packer 2:58 P M
Tool Open I.F.P. From 3:00P M. to 3:30P M. - Hr. 30 Min. From (B) 10 P.S.I. To (C) 15 P.S.I.
Tool Closed I.C.I.P. From 3:30P M. to 4:00P M. - Hr. 30 Min (D) 27 P.S.I.
Tool Open F.F.P. From 4:00 P M. to 4:30P M. - Hr. 30 Min. From (E) 21 P.S.I. To (F) 22 P.S.I.
Tool Closed F.C.I.P. From 4:30 M. to 5:00P M. - Hr. 30 Min. (G) 33 P.S.I.
Initial Hydrostatic Pressure (A) 2581 P.S.I. Final Hydrostatic Pressure (H) 2464 P.S.I. Maximum Temp. 114

INFORMATION

BLOW Weak blow for 10 minutes.Did Well Flow - Yes X No Recovery Total Ft. 5' drilling mud.Reversed Out - Yes X No Mud Type chem Viscosity 42 Weight 9.6 Water Loss 14.4 cc. Chlorides 5800 P.P.M.EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -Dual Packer NO Did Packers Hold? Yes Did Tool Plug? NO Where? -DRILLING CONTRACTOR Rains & Williamson Oil Co. Length Drill Pipe? 3332 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 420 Ft. I.D. Drill Collars 2 1/4 In.Tool Joint Size 4H90 In. Length D.S.T. Tool 24 Ft.Remarks: Read outside recorder

WESTERN TESTING CO., INC.

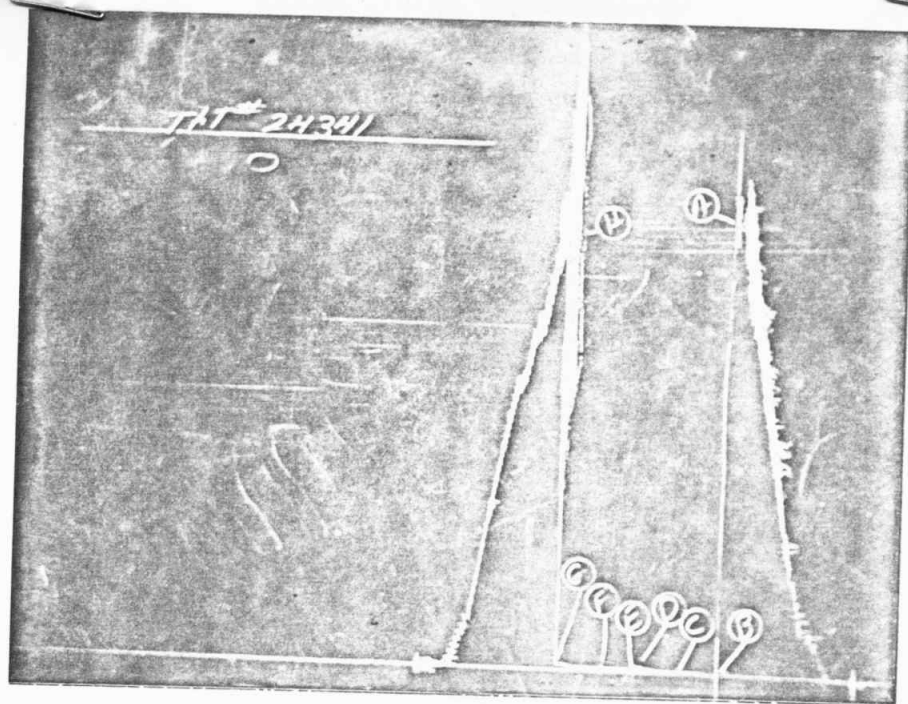
Pressure Data

Date 6-11-76 Test Ticket No. 24341
 Recorder No. 1561 Capacity 3200 Location 3772 Ft.
 Clock No. 4964 Elevation 1309 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2581</u> P.S.I.	Open Tool	<u>2:58</u> P M	
B First Initial Flow Pressure	<u>10</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>15</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>27</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>21</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>22</u> P.S.I.			
G Final Closed-in Pressure	<u>33</u> P.S.I.			
H Final Hydrostatic Mud	<u>2464</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>9</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>10</u>	<u>0</u>	<u>15</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>22</u>
P 2 <u>5</u>	<u>10</u>	<u>3</u>	<u>15</u>	<u>5</u>	<u>21</u>	<u>3</u>	<u>22</u>
P 3 <u>10</u>	<u>11</u>	<u>6</u>	<u>15</u>	<u>10</u>	<u>21</u>	<u>6</u>	<u>22</u>
P 4 <u>15</u>	<u>13</u>	<u>9</u>	<u>15</u>	<u>15</u>	<u>21</u>	<u>9</u>	<u>21</u>
P 5 <u>20</u>	<u>14</u>	<u>12</u>	<u>16</u>	<u>20</u>	<u>21</u>	<u>12</u>	<u>21</u>
P 6 <u>25</u>	<u>15</u>	<u>15</u>	<u>17</u>	<u>25</u>	<u>22</u>	<u>15</u>	<u>21</u>
P 7 <u>30</u>	<u>15</u>	<u>18</u>	<u>19</u>	<u>30</u>	<u>22</u>	<u>18</u>	<u>22</u>
P 8		<u>21</u>	<u>21</u>			<u>21</u>	<u>23</u>
P 9		<u>24</u>	<u>23</u>			<u>24</u>	<u>27</u>
P10		<u>27</u>	<u>27</u>			<u>27</u>	<u>31</u>
P11		<u>30</u>				<u>30</u>	<u>33</u>
P12						<u>33</u>	<u>33</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1925	2581	PSI
(B) First Initial Flow Pressure	8	8	PSI
(C) First Final Flow Pressure	12	12	PSI
(D) Initial Closed-in Pressure	25	25	PSI
(E) Second Initial Flow Pressure	12	12	PSI
(F) Second Final Flow Pressure	12	12	PSI
(G) Final Closed-in Pressure	25	25	PSI
(H) Final Hydrostatic Mud	1925	1925	PSI



INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Chitwood A- #1
Elevation 1309 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 21488
Date 6-11-76 Sec. 3 Twp. 31S Range 2W County Sumner State Kansas
Test Approved by Frank M. Brooks Western Representative Roy Pendlay
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 3777' to 3786' Total Depth 3786'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Top Packer Depth 3777 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 9 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3779 Ft. Clock No. 9103 Depth 3782 Ft. Clock No. 6859
Top Make Kuster Cap. 4200 No. 1558 ☒ Inside ☐ Outside Bottom Make Kuster Cap. 3150 No. 1564 ☒ Inside ☐ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ☒ Inside ☐ Outside Depth - Ft. Rec. No. - Clock No. - ☒ Inside ☐ Outside
Time Set Packer 2:58 P.M.
Tool Open I.F.P. From 3:00 P.M. to 3:45 P.M. - Hr. 45 Min. From (B) 12 P.S.I. To (C) 133 P.S.I.
Tool Closed I.C.I.P. From 3:45 P.M. to 4:45 P.M. 1 Hr. - Min (D) 1351 P.S.I.
Tool Open F.F.P. From 4:45 P.M. to 5:45 P.M. 1 Hr. - Min. From (E) 165 P.S.I. To (F) 249 P.S.I.
Tool Closed F.C.I.P. From 5:45 P.M. to 6:45 P.M. 1 Hr. - Min. (G) 1332 P.S.I.
Initial Hydrostatic Pressure (A) 1922 P.S.I. Final Hydrostatic Pressure (H) 1890 P.S.I. Maximum Temp. 114

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 470' salt water, 10' heavy drilling mud, 40' slightly
salty muddy water, 520' total fluid.

Reversed Out - Yes ☒ No ☐ Mud Type chem Viscosity 41 Weight 9.5 Water Loss 14.0 cc. Chlorides 5600 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size - In. Make - Ser. No. -

Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Rains & Williamson Oil Co. Length Drill Pipe? 3342 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 420 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 H90 In. Length D.S.T. Tool 24 Ft.

Remarks:

WESTERN TESTING CO., INC.

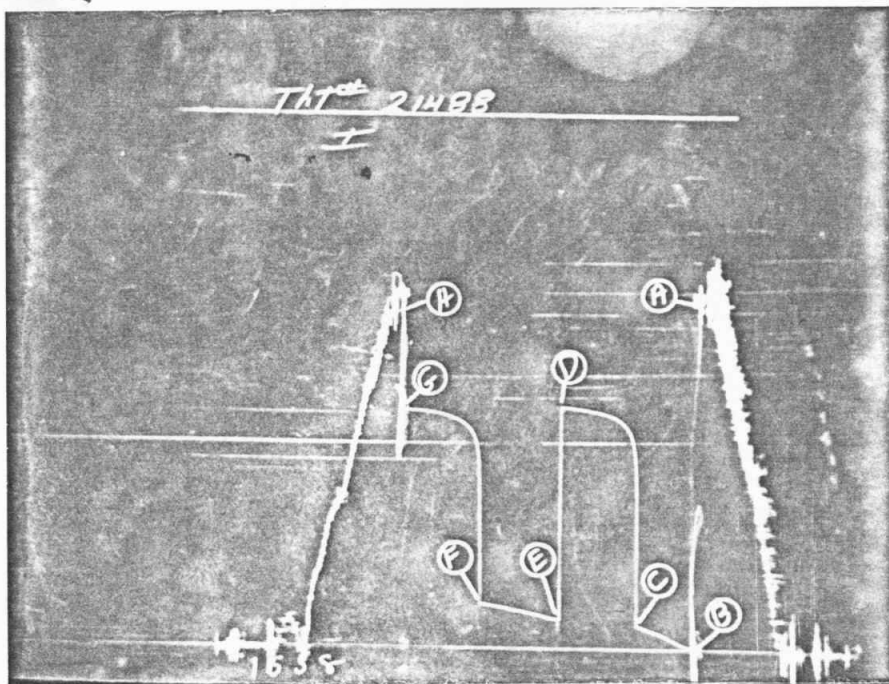
Pressure Data

Date 6-11-76 Test Ticket No. 21488
 Recorder No. 1558 Capacity 4200 Location 3779 Ft.
 Clock No. 9103 Elevation 1309 Kelly Bushing Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1922</u> P.S.I.	<u>2:58</u> P M	
B First Initial Flow Pressure	<u>12</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>133</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1351</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>165</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>249</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
G Final Closed-in Pressure	<u>1332</u> P.S.I.		
H Final Hydrostatic Mud	<u>1890</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>11</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>12</u>	<u>0</u>	<u>133</u>	<u>0</u>	<u>165</u>	<u>0</u>	<u>249</u>
P 2 <u>5</u>	<u>15</u>	<u>3</u>	<u>964</u>	<u>5</u>	<u>169</u>	<u>3</u>	<u>1015</u>
P 3 <u>10</u>	<u>27</u>	<u>6</u>	<u>1159</u>	<u>10</u>	<u>175</u>	<u>6</u>	<u>1163</u>
P 4 <u>15</u>	<u>44</u>	<u>9</u>	<u>1215</u>	<u>15</u>	<u>186</u>	<u>9</u>	<u>1211</u>
P 5 <u>20</u>	<u>65</u>	<u>12</u>	<u>1247</u>	<u>20</u>	<u>194</u>	<u>12</u>	<u>1238</u>
P 6 <u>25</u>	<u>82</u>	<u>15</u>	<u>1268</u>	<u>25</u>	<u>202</u>	<u>15</u>	<u>1257</u>
P 7 <u>30</u>	<u>97</u>	<u>18</u>	<u>1284</u>	<u>30</u>	<u>209</u>	<u>18</u>	<u>1270</u>
P 8 <u>35</u>	<u>110</u>	<u>21</u>	<u>1297</u>	<u>35</u>	<u>215</u>	<u>21</u>	<u>1280</u>
P 9 <u>40</u>	<u>123</u>	<u>24</u>	<u>1305</u>	<u>40</u>	<u>224</u>	<u>24</u>	<u>1288</u>
P10 <u>45</u>	<u>133</u>	<u>27</u>	<u>1311</u>	<u>45</u>	<u>232</u>	<u>27</u>	<u>1298</u>
P11		<u>30</u>	<u>1318</u>	<u>50</u>	<u>236</u>	<u>30</u>	<u>1305</u>
P12		<u>33</u>	<u>1324</u>	<u>55</u>	<u>243</u>	<u>33</u>	<u>1309</u>
P13		<u>36</u>	<u>1328</u>	<u>60</u>	<u>249</u>	<u>36</u>	<u>1314</u>
P14		<u>39</u>	<u>1331</u>			<u>39</u>	<u>1318</u>
P15		<u>42</u>	<u>1335</u>			<u>42</u>	<u>1322</u>
P16		<u>45</u>	<u>1339</u>			<u>45</u>	<u>1321</u>
P17		<u>48</u>	<u>1341</u>			<u>48</u>	<u>1325</u>
P18		<u>51</u>	<u>1345</u>			<u>51</u>	<u>1327</u>
P19		<u>54</u>	<u>1347</u>			<u>54</u>	<u>1328</u>
P20		<u>57</u>	<u>1349</u>			<u>57</u>	<u>1330</u>
		<u>60</u>	<u>1351</u>			<u>60</u>	<u>1332</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2004	1922	PSI
(B) First Initial Flow Pressure	21	12	PSI
(C) First Final Flow Pressure	126	133	PSI
(D) Initial Closed-in Pressure	1351	1351	PSI
(E) Second Initial Flow Pressure	168	165	PSI
(F) Second Final Flow Pressure	253	249	PSI
(G) Final Closed-in Pressure	1330	1332	PSI
(H) Final Hydrostatic Mud	2004	1890	PSI



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P. O. Box 1599
Wichita, Kansas 67201

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Chitwood A-#1
Elevation 1309 Kelly Bushing Simpson Formation Simpson Effective Pay - Ft. Ticket No. 25112
Date 6-13-76 Sec. 3 Twp. 31S Range 2W County Sumner State Kansas
Test Approved by Frank M. Brooks Western Representative Roy Pendlay
Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 4194' to 4200' Total Depth 4200'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 4189 Ft. Size 6 3/4 Bottom Packer Depth 4194 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 6 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4183 Ft. Clock No. 6866 Depth 4196 Ft. Clock No. 6896
Top Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside Bottom Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 6:14 P M
Tool Open I.F.P. From 6:15 PM to 6:45 PM - Hr. 30 Min. From (B) 0 P.S.I. To (C) 0 P.S.I.
Tool Closed I.C.I.P. From 6:45 PM to 7:15 PM - Hr. 30 Min (D) 1367 P.S.I.
Tool Open F.F.P. From 7:15 PM to 7:45 PM - Hr. 30 Min. From (E) 19 P.S.I. To (F) 13 P.S.I.
Tool Closed F.C.I.P. From 7:45 PM to 8:15 PM - Hr. 30 Min. (G) 232 P.S.I.
Initial Hydrostatic Pressure (A) 2109 P.S.I. Final Hydrostatic Pressure (H) 2093 P.S.I. Maximum Temp. 118

INFORMATION

BLOW No blow throughout test.
Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 10' drilling mud.
Reversed Out - Yes ☒ No ☐ Mud Type chem Viscosity 45 Weight 9.6 Water Loss 16.4 cc. Chlorides 8,800 P.P.M.
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? - Where? -
DRILLING CONTRACTOR Rains & Williamson Oil Co. Length Drill Pipe? 3738 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 431 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 31 Ft.
Remarks: Flushed tool on first open. Read outside recorder.

WESTERN TESTING CO., INC.

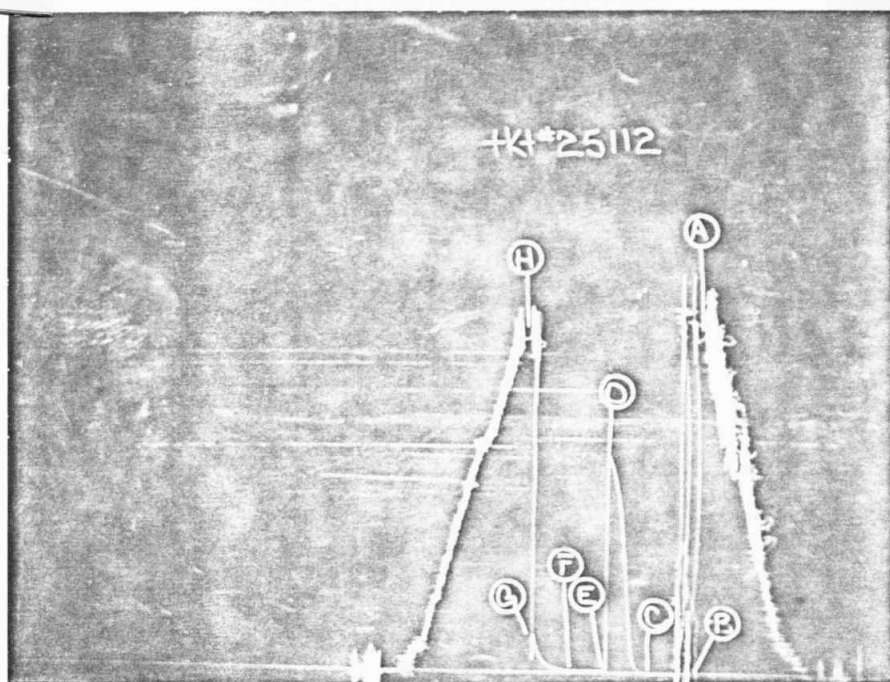
Pressure Data

Date 6-13-76 Test Ticket No. 25112
 Recorder No. 3085 Capacity 4500 Location 4196 Ft.
 Clock No. 6896 Elevation 1309 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2109</u> P.S.I.	Open Tool	<u>6:14</u> PM	
B First Initial Flow Pressure	<u>0</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>0</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1367</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>19</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>13</u> P.S.I.			
G Final Closed-in Pressure	<u>232</u> P.S.I.			
H Final Hydrostatic Mud	<u>2093</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>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>9</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>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>19</u>	<u>0</u>	<u>13</u>
P 2 <u>5</u>	<u>0</u>	<u>3</u>	<u>2</u>	<u>5</u>	<u>12</u>	<u>3</u>	<u>17</u>
P 3 <u>10</u>	<u>0</u>	<u>6</u>	<u>12</u>	<u>10</u>	<u>12</u>	<u>6</u>	<u>23</u>
P 4 <u>15</u>	<u>0</u>	<u>9</u>	<u>38</u>	<u>15</u>	<u>12</u>	<u>9</u>	<u>29</u>
P 5 <u>20</u>	<u>0</u>	<u>12</u>	<u>134</u>	<u>20</u>	<u>12</u>	<u>12</u>	<u>36</u>
P 6 <u>25</u>	<u>0</u>	<u>15</u>	<u>442</u>	<u>25</u>	<u>12</u>	<u>15</u>	<u>48</u>
P 7 <u>30</u>	<u>0</u>	<u>18</u>	<u>779</u>	<u>30</u>	<u>13</u>	<u>18</u>	<u>69</u>
P 8		<u>21</u>	<u>1051</u>			<u>21</u>	<u>109</u>
P 9		<u>24</u>	<u>1196</u>			<u>24</u>	<u>178</u>
P10		<u>27</u>	<u>1296</u>			<u>27</u>	<u>232</u>
P11		<u>30</u>	<u>1367</u>				
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2093	2109	PSI
(B) First Initial Flow Pressure	0	0	PSI
(C) First Final Flow Pressure	0	0	PSI
(D) Initial Closed-in Pressure	1373	1367	PSI
(E) Second Initial Flow Pressure	7	19	PSI
(F) Second Final Flow Pressure	7	13	PSI
(G) Final Closed-in Pressure	236	232	PSI
(H) Final Hydrostatic Mud	2093	2093	PSI



INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Chitwood A-#1
Elevation 1309 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 25113
Date 6-14-76 Sec. 3 Twp. 31S Range 2W County Sumner State Kansas
Test Approved by Frank M. Brooks Western Representative Roy Pendlay
Formation Test No. 5 O.K. ☒ Misrun ☐ Interval Tested From 4196' to 4205' Total Depth 4205'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 4191 Ft. Size 6 3/4 Bottom Packer Depth 4196 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 9 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4199 Ft. Clock No. 6866 Depth 4202 Ft. Clock No. 6896
Top Make Kuster Cap. 3150 No. 1562 ☒ Inside ☐ Outside Bottom Make Kuster Cap. 4500 No. 3085 ☒ Inside ☐ Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ☒ Inside ☐ Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ☒ Inside ☐ Outside
Time Set Packer 6:44 A M
Tool Open I.F.P. From 6:45 AM to 7:15 AM - Hr. 30 Min. From (B) 7 P.S.I. To (C) 12 P.S.I.
Tool Closed I.C.I.P. From 7:15 M. to 7:45 AM - Hr. 30 Min (D) 1206 P.S.I.
Tool Open F.F.P. From 7:45 A M. to 8:15 A M. - Hr. 30 Min. From (E) 25 P.S.I. To (F) 20 P.S.I.
Tool Closed F.C.I.P. From 8:15 M. to 8:45 A M. - Hr. 30 Min. (G) 585 P.S.I.
Initial Hydrostatic Pressure (A) 2079 P.S.I. Final Hydrostatic Pressure (H) 2053 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Weak blow, died in 18 minutes.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 15' drilling mud with a little rainbow.

Reversed Out - Yes ☒ No ☐ Mud Type chem Viscosity 45 Weight 9.6 Water Loss 16.4 cc. Chlorides 8,800 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? ☐

DRILLING CONTRACTOR Rains & Williamson Oil Co. Length Drill Pipe? 3745 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars 431 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 29 Ft.

Remarks:

WESTERN TESTING CO., INC.

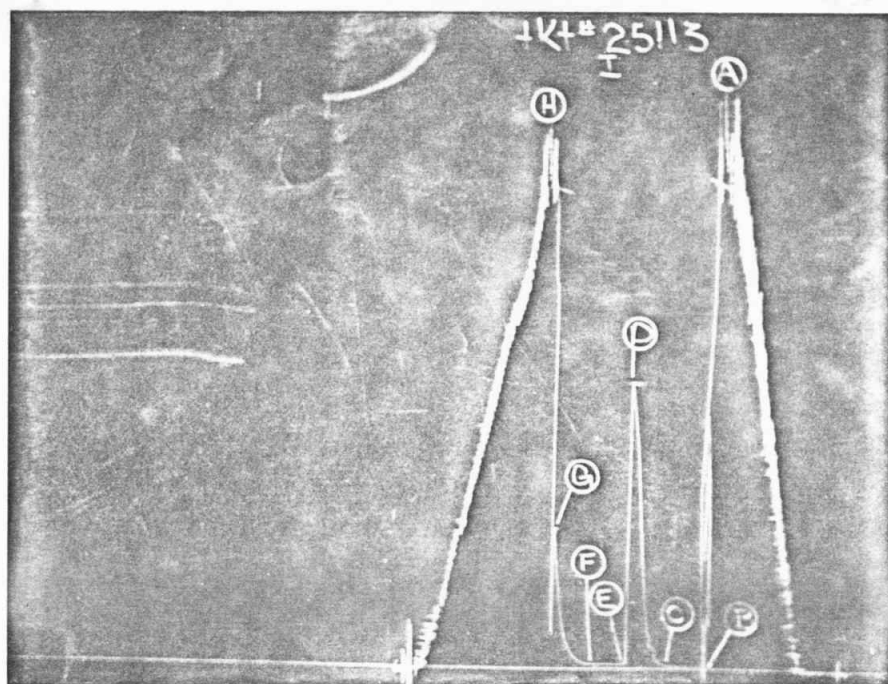
Pressure Data

Date 6-14-76 Test Ticket No. 25113
 Recorder No. 1562 Capacity 3150 Location 4199 Ft.
 Clock No. 6866 Elevation 1309 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2079</u> P.S.I.	Open Tool	<u>6:44</u> A M	
B First Initial Flow Pressure	<u>7</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>12</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1206</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>25</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>20</u> P.S.I.			
G Final Closed-in Pressure	<u>585</u> P.S.I.			
H Final Hydrostatic Mud	<u>2053</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>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>9</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>7</u>	<u>0</u>	<u>12</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>20</u>
P 2 <u>5</u>	<u>7</u>	<u>3</u>	<u>19</u>	<u>5</u>	<u>19</u>	<u>3</u>	<u>24</u>
P 3 <u>10</u>	<u>8</u>	<u>6</u>	<u>34</u>	<u>10</u>	<u>18</u>	<u>6</u>	<u>31</u>
P 4 <u>15</u>	<u>9</u>	<u>9</u>	<u>86</u>	<u>15</u>	<u>19</u>	<u>9</u>	<u>44</u>
P 5 <u>20</u>	<u>10</u>	<u>12</u>	<u>94</u>	<u>20</u>	<u>19</u>	<u>12</u>	<u>63</u>
P 6 <u>25</u>	<u>11</u>	<u>15</u>	<u>195</u>	<u>25</u>	<u>19</u>	<u>15</u>	<u>90</u>
P 7 <u>30</u>	<u>12</u>	<u>18</u>	<u>363</u>	<u>30</u>	<u>20</u>	<u>18</u>	<u>143</u>
P 8		<u>21</u>	<u>595</u>			<u>21</u>	<u>239</u>
P 9		<u>24</u>	<u>833</u>			<u>24</u>	<u>372</u>
P10		<u>27</u>	<u>1100</u>			<u>27</u>	<u>585</u>
P11		<u>30</u>	<u>1206</u>				
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2069	2079	PSI
(B) First Initial Flow Pressure	7	7	PSI
(C) First Final Flow Pressure	7	12	PSI
(D) Initial Closed-in Pressure	1199	1206	PSI
(E) Second Initial Flow Pressure	15	25	PSI
(F) Second Final Flow Pressure	15	20	PSI
(G) Final Closed-in Pressure	589	585	PSI
(H) Final Hydrostatic Mud	2053	2053	PSI