



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

Company Pickrell Drilling Company Lease & Well No. Rein #C-1  
 Elevation 2269 Kelly Bushings; Formation- Miss. Ticket Number 5578  
 Date April 15, 1965 Sec. 29 Twp. 19s Range 21w County Ness State Kansas  
 Test Approved by Dan Bowles Western Representative Jack Toelkes

Formation Test No. 1 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4359' to 4404' Total Depth 4404'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No   
 Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No   
 Packer Depth 4354 Ft. Size 6 3/4 Packer Depth 4359 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 45 Ft. Size 5 1/2 OD

RECORDERS Depth 4394 Ft. Clock No. 6774 Depth 4397 Ft. Clock No. 147  
 Top Make Amerada Cap. 4382 No. 1567 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Bottom Make Western Cap. 3600 No. 30 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 2:00 A M  
 Tool Open I.F.P. From 2:02A M to 2:07 M Hr. 5 Min. From (B) 35 P.S.I. To (C) 35 P.S.I.  
 Tool Closed I.C.I.P. From 2:07A M. to 2:37A M. Hr. 30 Min. (D) 175 P.S.I.  
 Tool Open F.F.P. From 2:37A M. to 3:37 A M. 1 Hr. Min. From (E) 35 P.S.I. To (F) 40 P.S.I.  
 Tool Closed F.C.I.P. From 3:37A M. to 4:07A M. Hr. 30 Min. (G) 40 P.S.I.  
 Initial Hydrostatic Pressure (A) 2435 P.S.I. Final Hydrostatic Pressure (H) 2425 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak five minutes. Bottom Choke Size 3/4 in.  
 Did Well Flow  Yes  No Recovery Total Ft. 10' drilling mud

Reversed Out  Yes  No Mud Type starch Viscosity 41 Weight 9.9 Maximum Temp. 118 °F  
 EXTRA EQUIPMENT: Dual Packers  Safety Joint \_\_\_\_\_ Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug?  no Where? \_\_\_\_\_ Did Packer Hold?  yes  
 Length Drill Pipe 3279 ft. I.D. Drill Pipe \_\_\_\_\_ in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 65 ft.

Remarks  
Flushed tool after thirty minutes. Amerada clock stopped while on bottom.

# WESTERN TESTING CO., INC.

## Pressure Data

Date April 15, 1965

Test Ticket No. 5578

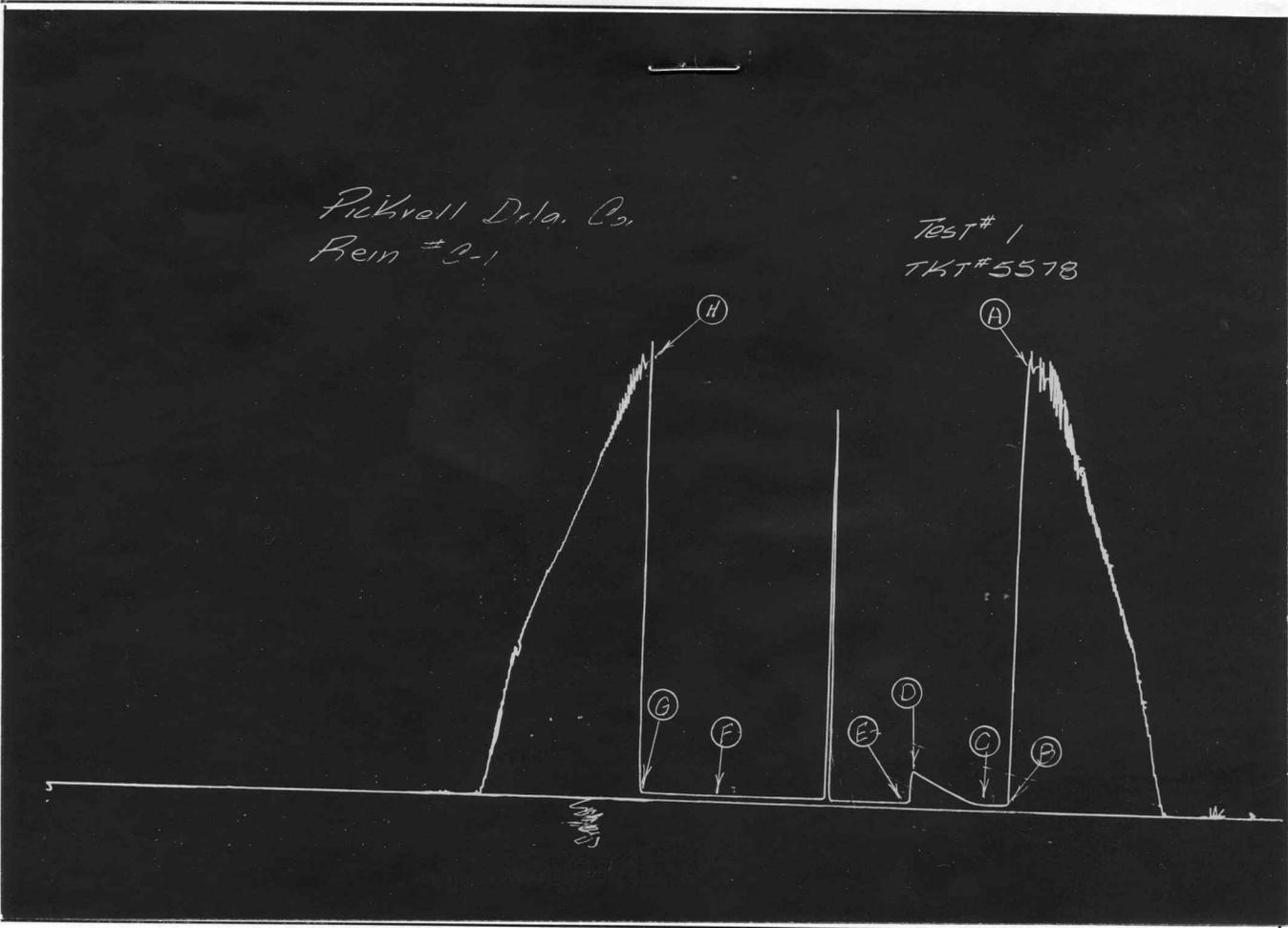
Recorder No. 30 Capacity 3600 Location 4394 Ft.

Clock No. 147 Elevation 2269 Klely Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2435</u> P.S.I.	Opened Tool	<u>2:00</u> A M	
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>175</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>57</u> Mins.
E Second Initial Flow Pressure	<u>35</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>40</u> P.S.I.			
G Final Closed-in Pressure	<u>40</u> P.S.I.			
H Final Hydrostatic Mud	<u>2425</u> P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>2</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>35</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>40</u>
P 2	<u>35</u>	<u>3</u>	<u>50</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>40</u>
P 3		<u>6</u>	<u>65</u>	<u>10</u>	<u>40</u>	<u>6</u>	<u>40</u>
P 4		<u>9</u>	<u>80</u>	<u>15</u>	<u>40</u>	<u>9</u>	<u>40</u>
P 5		<u>12</u>	<u>90</u>	<u>20</u>	<u>40</u>	<u>12</u>	<u>40</u>
P 6		<u>15</u>	<u>105</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>40</u>
P 7		<u>18</u>	<u>115</u>	<u>30</u>	<u>40</u>	<u>18</u>	<u>40</u>
P 8		<u>21</u>	<u>130</u>	<u>35</u>	<u>40</u>	<u>24</u>	<u>40</u>
P 9		<u>24</u>	<u>155</u>	<u>40</u>	<u>40</u>	<u>27</u>	<u>40</u>
P10		<u>27</u>	<u>175</u>	<u>45</u>	<u>40</u>	<u>30</u>	<u>40</u>
P11				<u>50</u>	<u>40</u>		
P12				<u>55</u>	<u>40</u>		
P13				<u>57</u>	<u>40</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud .....	2435 PSI
(B) First Initial Flow Pressure .....	35 PSI
(C) First Final Flow Pressure .....	35 PSI
(D) Initial Closed-in Pressure .....	175 PSI
(E) Second Initial Flow Pressure .....	35 PSI
(F) Second Final Flow Pressure .....	40 PSI
(G) Final Closed-in Pressure .....	40 PSI
(H) Final Hydrostatic Mud .....	2425 PSI



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

Company Pickrell Drilling Company Lease & Well No. Rein #C-1  
 Elevation 2269 Kelly Bushings; Formation : Miss. Ticket Number 5579  
 Date April 15, 1965 Sec. 29 Twp. 19s Range 21w County Ness State Kansas  
 Test Approved by Dan Bowles Western Representative Jack Toelkes

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4404' to 4409' Total Depth 4409'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No  
 Packer Depth 4399 Fr. Size 6 3/4 Packer Depth 4404 Fr. Size 6 3/4  
 Straddle \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No  
 Packer Depth \_\_\_\_\_ Fr. Size \_\_\_\_\_  
 Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 5 Ft. Size 5 1/2 OD

RECORDERS Depth 4393 Ap. Ft. Clock No. 6774 Depth 4406 Fr. Clock No. 147  
 Top Make Amerada Cap. 4382 No. 1567 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Western Cap. 3600 No. 30 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 12:01 P M  
 Tool Open I.F.P. From 12:03 P M to 12:08 P M Hr. 5 Min. From (B) \_\_\_\_\_ P.S.I. To (C) \_\_\_\_\_ P.S.I.  
 Tool Closed I.C.I.P. From 12:08 P M. to 12:38 P M. Hr. 30 Min. (D) \_\_\_\_\_ P.S.I.  
 Tool Open F.F.P. From 12:38 P M. to 1:20 P M. Hr. 42 Min. From (E) 21 P.S.I. To (F) \_\_\_\_\_ P.S.I.  
 Tool Closed F.C.I.P. From 1:20 P M. to 1:50 P M. Hr. 30 Min. (G) \_\_\_\_\_ P.S.I.  
 Initial Hydrostatic Pressure (A) 2332 P.S.I. Final Hydrostatic Pressure (H) 2318 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_ M. \_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak five minutes/ Bottom Choke Size 3/4 In.  
 Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 10' mud

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 44 Weight 9.9 Maximum Temp. 110 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint \_\_\_\_\_ Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 3329 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 30 ft.

Remarks Flushed tool twice after twenty minutes. Tool slid approximately 12" to bottom started taking weight approximately 4' off bottom.

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

Date April 15, 1965

Test Ticket No. 5579

Recorder No. 1567

Capacity 4300

Location 4393 Ft.

Clock No. 6774

Elevation 2269 Kelly Bushings

Well Temperature 118 °F

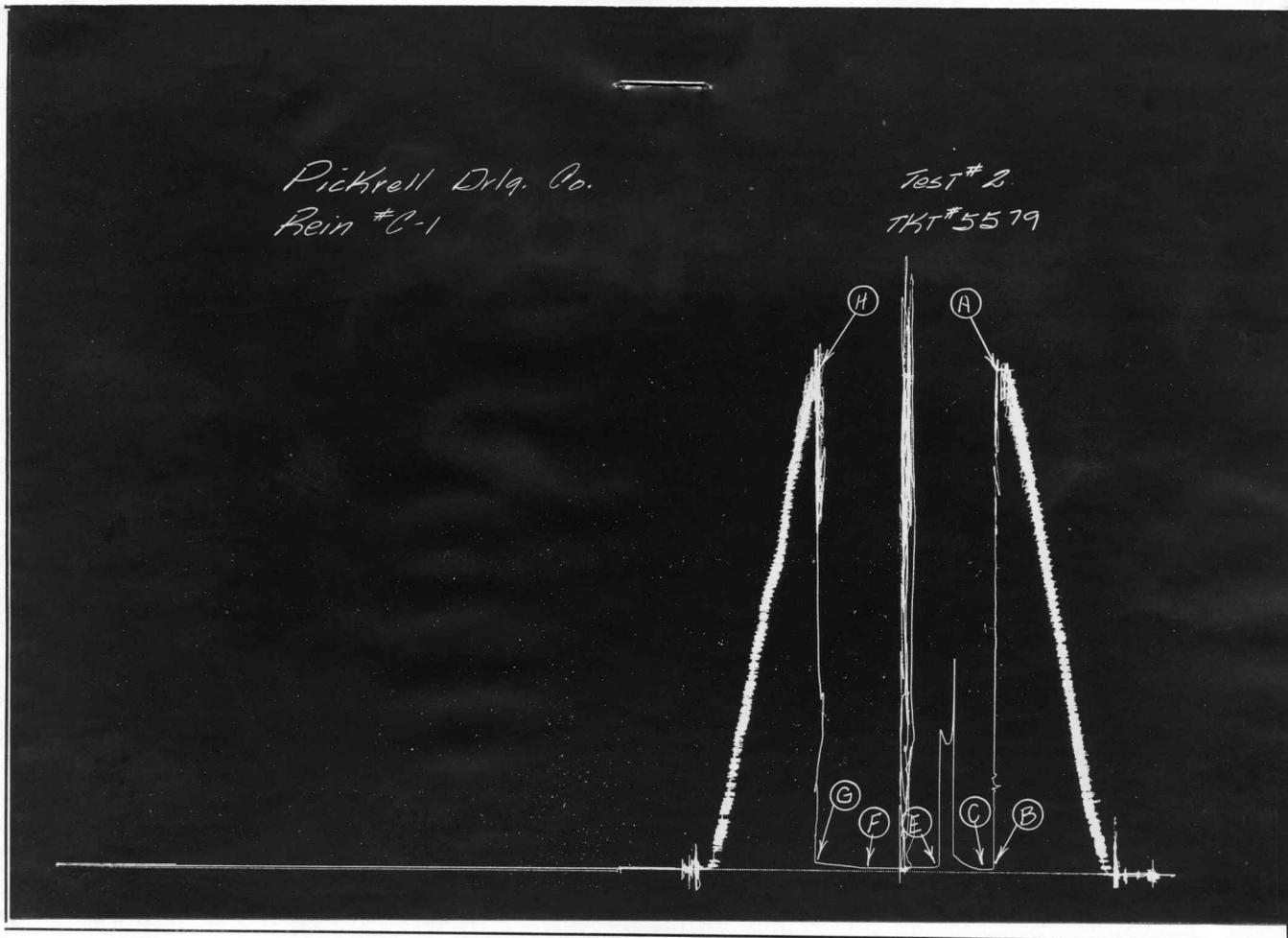
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2332</u> P.S.I.	Opened Tool	<u>12:01 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>17</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>17</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>20</u> Mins.
D Initial Closed-in Pressure	<u>86</u> P.S.I.	Second Flow Pressure	<u>42</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>21</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>21</u> P.S.I.			
G Final Closed-in Pressure	<u>38</u> P.S.I.			
H Final Hydrostatic Mud	<u>2318</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In				
	Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	Breakdown: <u>8</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.				
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>17</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>21</u>	
P 2	<u>17</u>	<u>3</u>	<u>21</u>	<u>5</u>	<u>21</u>	<u>3</u>	<u>21</u>	
P 3		<u>6</u>	<u>23</u>	<u>10</u>	<u>21</u>	<u>6</u>	<u>23</u>	
P 4		<u>9</u>	<u>30</u>	<u>15</u>	<u>21</u>	<u>9</u>	<u>24</u>	
P 5		<u>12</u>	<u>41</u>	<u>20</u>	<u>21</u>	<u>12</u>	<u>26</u>	
P 6		<u>15</u>	<u>56</u>	<u>25</u>	<u>21</u>	<u>15</u>	<u>28</u>	
P 7		<u>18</u>	<u>77</u>	<u>30</u>	<u>21</u>	<u>18</u>	<u>30</u>	
P 8		<u>20</u>	<u>86</u>	<u>35</u>	<u>21</u>	<u>21</u>	<u>32</u>	
P 9				<u>40</u>	<u>21</u>	<u>24</u>	<u>35</u>	
P10		<u>The remaining 10 minutes of ISIP</u>					<u>27</u>	<u>37</u>
P11		<u>was inconclusive.</u>					<u>30</u>	<u>38</u>
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

Pickrell Drilg. Co.  
Rein #C-1

Test # 2  
TKT # 5579



This is an actual photograph of recorder chart.

**POINT**

**PRESSURE**

(A) Initial Hydrostatic Mud .....	2332	PSI
(B) First Initial Flow Pressure .....	17	PSI
(C) First Final Flow Pressure .....	17	PSI
(D) Initial Closed-in Pressure .....	86	PSI
(E) Second Initial Flow Pressure .....	21	PSI
(F) Second Final Flow Pressure .....	21	PSI
(G) Final Closed-in Pressure .....	38	PSI
(H) Final Hydrostatic Mud .....	2318	PSI



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

Company Pickrell Drilling Company Lease & Well No. Rein #C-1  
 Elevation 2269 Kelly Bushings; Formation ----- Ticket Number 5580  
 Date April 16, 1965 Sec. 29 Twp. 19s Range 21w County Ness State Kansas  
 Test Approved by Dan Bowles Western Representative Jack Toelkes

Formation Test No. 3 O.K.  Misrun  Interval Tested From 4404' to 4414' Total Depth 4414'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No Conv. \_\_\_\_\_ B.T.  Damaged  Yes \_\_\_\_\_ No  
 Packer Depth 4399 Ft. Size 6 3/4 Packer Depth 4404 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 10 Ft. Size 5 1/2 OD

RECORDERS Depth 4407 Ft. Clock No. 6774 Depth 4411 Ft. Clock No. 147  
 Top Make Amerada Cap. 4382 No. 1567 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Western Cap. 3600 No. 30 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 10:51 P M  
 Tool Open I.F.P. From 10:50 M to 10:59 M Hr. 5 Min. From (B) 30 P.S.I. To (C) 30 P.S.I.  
 Tool Closed I.C.I.P. From 10:59 M to 11:29 M Hr. 30 Min. (D) 543 P.S.I.  
 Tool Open F.F.P. From 11:29 M to 12:09A M Hr. 40 Min. From (E) 34 P.S.I. To (F) 36 P.S.I.  
 Tool Closed F.C.I.P. From 12:09A M to 12:39A M Hr. 30 Min. (G) 44 P.S.I.  
 Initial Hydrostatic Pressure (A) 2351 P.S.I. Final Hydrostatic Pressure (H) 2337 P.S.I.

SURFACE INFORMATION	Size Choke <u>3/4</u> In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak five minutes/ Bottom Choke Size 3/4 In.

Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 10' mud

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 45 Weight 10 .1 Maximum Temp. 110 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint \_\_\_\_\_ Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 3334 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 30 ft.

Remarks Flushed tool after ten minutes.

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

Date April 16, 1965

Test Ticket No. 5580

Recorder No. 1567 Capacity 4300 Location 4407 Ft.

Clock No. 6774 Elevation 2269 Kelly Bushings Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2351</u> P.S.I.	Opened Tool	<u>10:51 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>30</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>543</u> P.S.I.	Second Flow Pressure	<u>40</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>34</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>36</u> P.S.I.			
G Final Closed-in Pressure	<u>44</u> P.S.I.			
H Final Hydrostatic Mud	<u>2337</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Press.**  
Breakdown: 1 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.

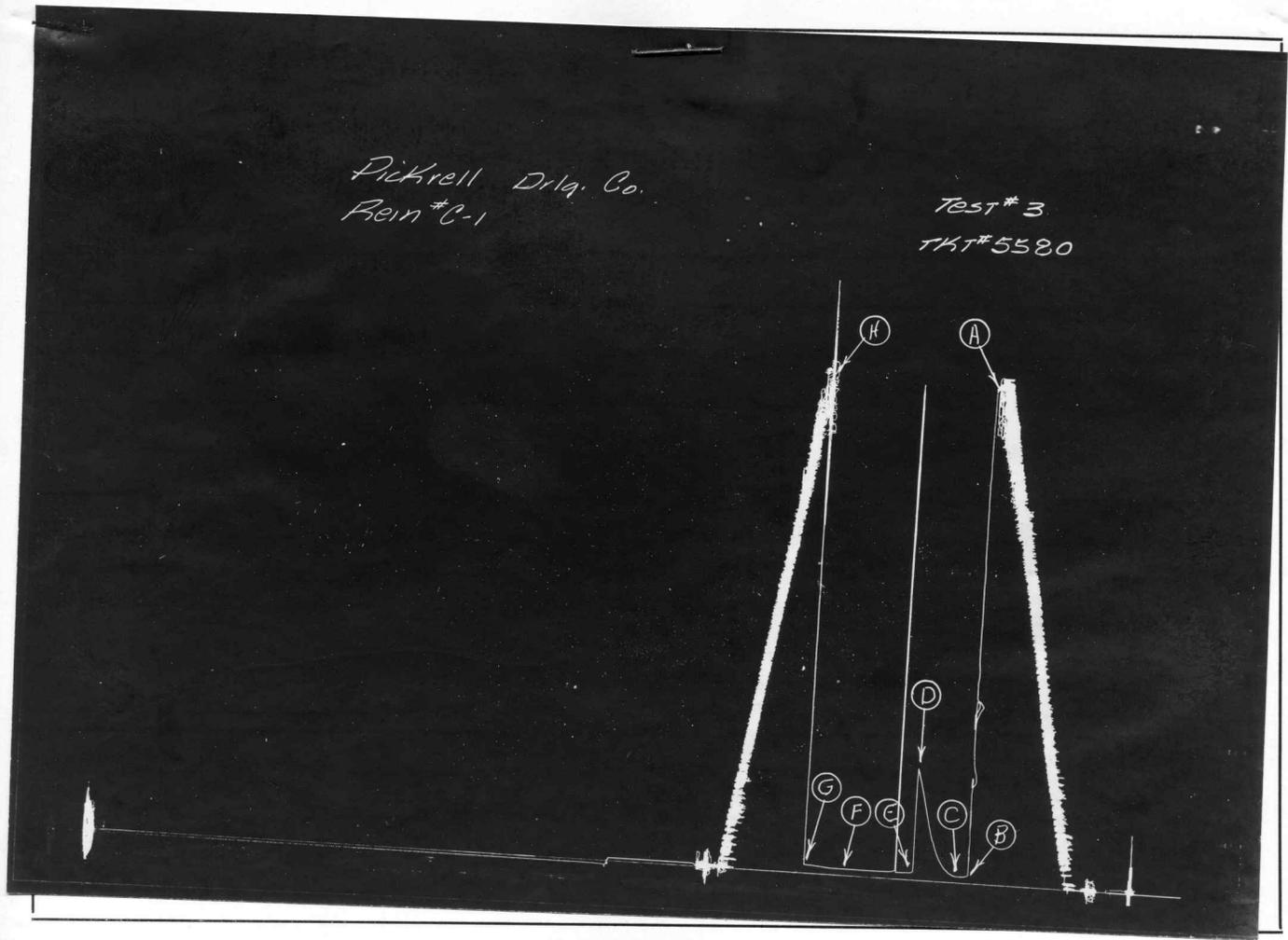
**Second Flow Pressure**  
Breakdown: 8 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**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>30</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>36</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>32</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>36</u>
P 3		<u>6</u>	<u>43</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>37</u>
P 4		<u>9</u>	<u>64</u>	<u>15</u>	<u>36</u>	<u>9</u>	<u>37</u>
P 5		<u>12</u>	<u>101</u>	<u>20</u>	<u>36</u>	<u>12</u>	<u>38</u>
P 6		<u>15</u>	<u>144</u>	<u>25</u>	<u>36</u>	<u>15</u>	<u>39</u>
P 7		<u>18</u>	<u>213</u>	<u>30</u>	<u>36</u>	<u>18</u>	<u>40</u>
P 8		<u>21</u>	<u>313</u>	<u>35</u>	<u>36</u>	<u>21</u>	<u>40</u>
P 9		<u>24</u>	<u>417</u>	<u>40</u>	<u>36</u>	<u>24</u>	<u>41</u>
P10		<u>27</u>	<u>497</u>			<u>27</u>	<u>42</u>
P11		<u>30</u>	<u>543</u>			<u>30</u>	<u>44</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell Drilg. Co.  
Rein #C-1

Test # 3  
TKT# 5580



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud .....	2351 PSI
(B) First Initial Flow Pressure .....	30 PSI
(C) First Final Flow Pressure .....	30 PSI
(D) Initial Closed-in Pressure .....	543 PSI
(E) Second Initial Flow Pressure .....	34 PSI
(F) Second Final Flow Pressure .....	36 PSI
(G) Final Closed-in Pressure .....	44 PSI
(H) Final Hydrostatic Mud .....	2337 PSI



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

Company Pickrell Drilling Company Lease & Well No. Rein #C-1  
 Elevation 2269 Kelly Bushings; Formation - Miss. Ticket Number 5581  
 Date April 16, 1965 Sec. 29 Twp. 19s Range 21w County Ness State Kansas  
 Test Approved by Dan Bowles Western Representative Jack Toelkes

Formation Test No. 4 O.K.  Misrun  Interval Tested From 4412' to 4422' Total Depth 4422'  
 Size Main Hole 7 7/8 Rat Hole          Conv.          B.T.  Damaged          Yes  No          Conv.          B.T.  Damaged          Yes  No  
 Packer Depth 4407 Ft. Size 6 3/4 Packer Depth 4412 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 10 Ft. Size 5 1/2 OD

RECORDERS Depth 4416 Ft. Clock No. 6774 Depth 4416 Ft. Clock No. 147  
 Top Make Amerada Cap. 4382 No. 1567 Inside          Bottom Make Western Cap. 3600 No. 30 Inside           
 Below Straddle: Depth          Clock No.          Inside          Depth          Ft. Clock No.          Outside           
 Top Make          Cap.          No.          Inside          Bottom Make          Cap.          No.          Outside         

Time Set Packer 9:16A M  
 Tool Open I.F.P. From 9:18A M to 9:23A M Hr. 5 Min. From (B) 49 P.S.I. To (C) 49 P.S.I.  
 Tool Closed I.C.I.P. From 9:23A M. to 9:53A M. Hr. 30 Min. (D) 1361 P.S.I.  
 Tool Open F.F.P. From 9:53A M. to 11:53A M. 2 Hr. Min. From (E) 54 P.S.I. To (F) 133 P.S.I.  
 Tool Closed F.C.I.P. From 11:53A M. to 12:23B M. Hr. 30 Min. (G) 1255 P.S.I.  
 Initial Hydrostatic Pressure (A) 2370 P.S.I. Final Hydrostatic Pressure (H) 2358 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	<u>3/4</u> In.			

BLOW Weak build to fair Bottom Choke Size 3/4 In.  
 Did Well Flow          Yes  No          Recovery Total Ft. 50' gas in pipe; 130' heavy oil and gas cut mud; 60' oil and gas cut mud trace water. 60' muddy oily water Mud         

Reversed Out          Yes  No          Mud Type starch Viscosity 48 Weight 9.9 Maximum Temp. 124 °F  
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size          Make          Ser. No.           
 Type Circ. Sub. PIE plug Did Tool Plug? no Where?          Did Packer Hold? yes  
 Length Drill Pipe 3334 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1050 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars          ft.  
 I. D. Drill Collars          in. Length D. S. T. Tool 30 ft.

Remarks

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

Date April 16, 1965

Test Ticket No. 5581

Recorder No. 1567 Capacity 4300 Location 4416 Ft.

Clock No. 6774 Elevation 2269 Kelly Bushings Well Temperature 124 °F

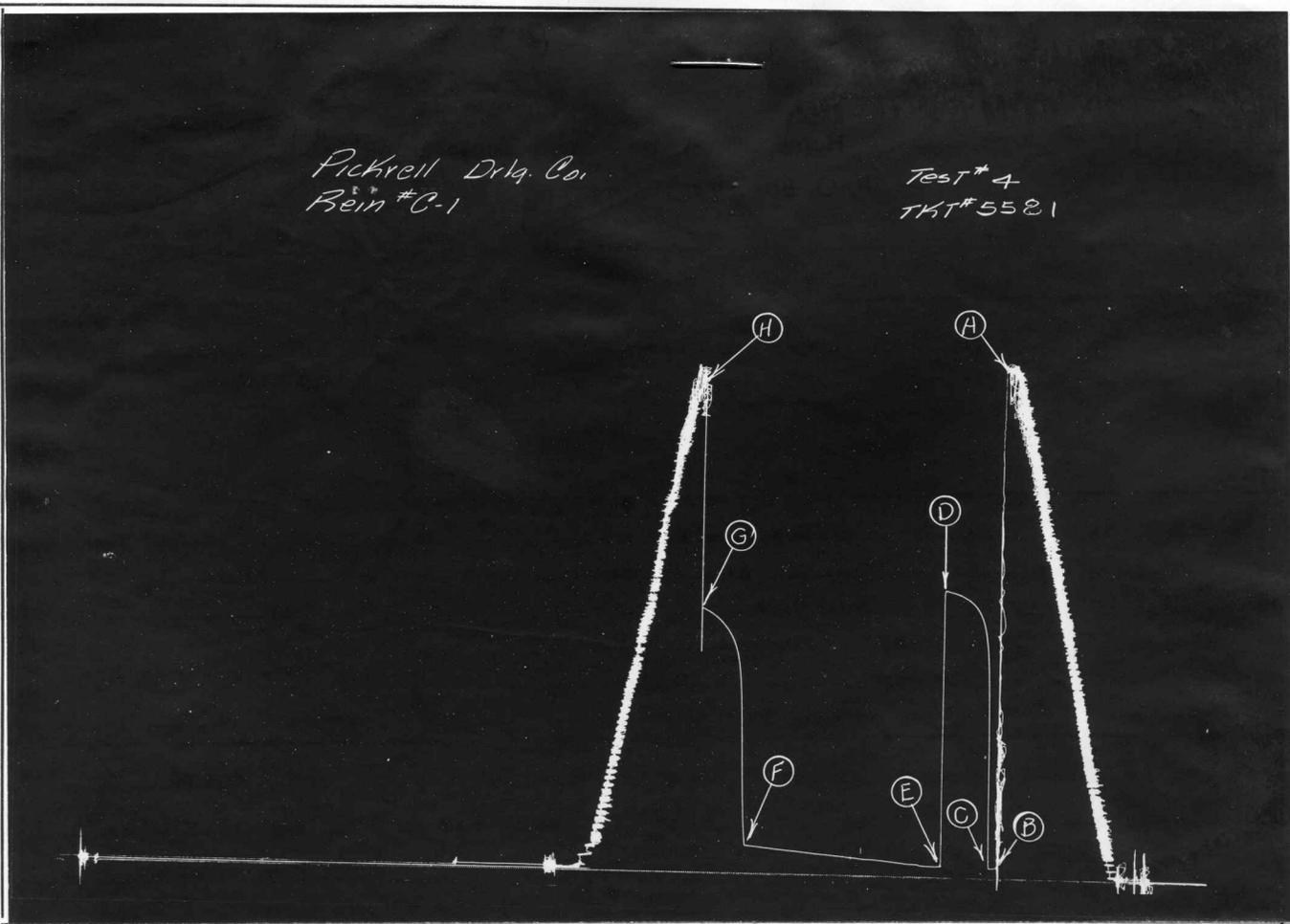
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2370</u> P.S.I.	Opened Tool	<u>9:16 A</u>	
B First Initial Flow Pressure	<u>49</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1361</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>54</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>133</u> P.S.I.			
G Final Closed-in Pressure	<u>1255</u> P.S.I.			
H Final Hydrostatic Mud	<u>2358</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>1</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>24</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.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>49</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>120</u>
P 2	<u>49</u>	<u>3</u>	<u>1017</u>	<u>5</u>	<u>55</u>	<u>3</u>	<u>555</u>
P 3		<u>6</u>	<u>1197</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>974</u>
P 4		<u>9</u>	<u>1273</u>	<u>15</u>	<u>60</u>	<u>9</u>	<u>1086</u>
P 5		<u>12</u>	<u>1296</u>	<u>20</u>	<u>64</u>	<u>12</u>	<u>1133</u>
P 6		<u>15</u>	<u>1318</u>	<u>25</u>	<u>66</u>	<u>15</u>	<u>1172</u>
P 7		<u>18</u>	<u>1331</u>	<u>30</u>	<u>71</u>	<u>18</u>	<u>1197</u>
P 8		<u>21</u>	<u>1344</u>	<u>35</u>	<u>75</u>	<u>21</u>	<u>1215</u>
P 9		<u>24</u>	<u>1353</u>	<u>40</u>	<u>79</u>	<u>24</u>	<u>1232</u>
P10		<u>27</u>	<u>1357</u>	<u>45</u>	<u>82</u>	<u>27</u>	<u>1245</u>
P11		<u>30</u>	<u>1361</u>	<u>50</u>	<u>84</u>	<u>30</u>	<u>1255</u>
P12				<u>55</u>	<u>87</u>		
P13				<u>60</u>	<u>90</u>		
P14				<u>65</u>	<u>95</u>		
P15				<u>70</u>	<u>99</u>		
P16				<u>75</u>	<u>101</u>		
P17				<u>80</u>	<u>105</u>		
P18				<u>85</u>	<u>110</u>		
P19				<u>90</u>	<u>114</u>		
P20				<u>95</u>	<u>116</u>		
				<u>100</u>	<u>118</u>		
				<u>105</u>	<u>122</u>		
				<u>110</u>	<u>125</u>		
				<u>115</u>	<u>129</u>		
				<u>120</u>	<u>133</u>		

Pickrell Drilling Co.  
Rein #C-1

TEST # 4  
TKT# 5521



This is an actual photograph of recorder chart.

**POINT**

**PRESSURE**

(A) Initial Hydrostatic Mud .....	2370	PSI
(B) First Initial Flow Pressure .....	49	PSI
(C) First Final Flow Pressure .....	49	PSI
(D) Initial Closed-in Pressure .....	1361	PSI
(E) Second Initial Flow Pressure .....	54	PSI
(F) Second Final Flow Pressure .....	133	PSI
(G) Final Closed-in Pressure .....	1255	PSI
(H) Final Hydrostatic Mud .....	2358	PSI