

Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Campbell #2  
 Elevation 1502 Derrick Floor Ticket Number 4078  
 Date Sept. 12, 1964 Sec. 33 Twp. 29s Range 6w County Kingman State Kansas  
 Test Approved by Ralph W. Ruwwe Western Representative George Tew

Formation Test No. 1 O.K.  Misrun  Interval Tested From 3266 to 3276 Total Depth 3272  
 Size Main Hole 7 7/8 Rat Hole None Conv.  B.T.  Damaged Yes  No  Conv. B.T. Damaged Yes  No   
 Packer Depth 3266 Ft. Size 6 3/4 Packer Depth 3261 Ft. Size 6 3/4  
 Straddle Yes  No  Conv.  B.T.  Damaged Yes  No   
 Packer Depth  Ft. Size   
 Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 6 Ft. Size 5 1/2 O. D.

RECORDERS  
 Depth 3255 Ft. Clock No. 6861 Depth 3269 Ft. Clock No. 109  
 Top Make Amerada Cap. 4200 No. 1558 Inside  Outside  Bottom Make Western Cap. 4000 No. 60 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 11:27 P. M  
 Tool Open I.F.P. From 11:30 M to 11:35 M Hr. 5 Min. From (B) 33 P.S.I. To (C) 33 P.S.I.  
 Tool Closed I.C.I.P. From 11:35 P. M. to 12:05 M. Hr. 30 Min. (D) 1321 P.S.I.  
 Tool Open F.F.P. From 12:05 P. M. to 1:20 P. M. 1 Hr. 15 Min. From (E) 40 P.S.I. To (F) 122 P.S.I.  
 Tool Closed F.C.I.P. From 1:20 P. M. to 1:50 P. M. Hr. 30 Min. (G) 1286 P.S.I.  
 Initial Hydrostatic Pressure (A) 1740 P.S.I. Final Hydrostatic Pressure (H) 1708 P.S.I.

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

BLOW Good blow throughout. Gas to surface in 50 minutes Bottom Choke Size 3/4 in.  
 Did Well Flow  Yes  No Recovery Total Ft. 320' - 220' clean oil - 90' muddy oil - 10' oil out mud

Reversed Out Yes  No  Mud Type starch Viscosity 51 Weight 9.2 Maximum Temp. 131 °F

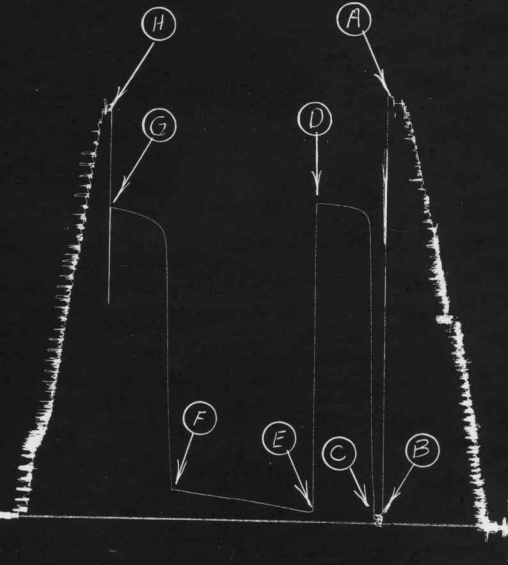
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 2371 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 31 ft.

Remarks



Pickrell Drilling Co.  
Campbell # F-2

Test # 1  
TKT#407B



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud .....	1740	PSI
(B) First Initial Flow Pressure .....	33	PSI
(C) First Final Flow Pressure .....	33	PSI
(D) Initial Closed-in Pressure .....	1321	PSI
(E) Second Initial Flow Pressure .....	40	PSI
(F) Second Final Flow Pressure .....	122	PSI
(G) Final Closed-in Pressure .....	1286	PSI
(H) Final Hydrostatic Mud .....	1708	PSI



Home Office: Great Bend, Kansas  
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Company Pickrell Drilling Company Lease & Well No. Campbell F#2  
 Elevation 1502 Derrick Floor Ticket Number 4079  
 Date Sept. 13, 1964 Sec. 33 Twp. 29s Range 6w County Kingman State Kansas  
 Test Approved by Ralph W. Ruwe Western Representative George Tew

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3272 to 3278' Total Depth 3278'  
 Size Main Hole 7 5/8 Rat Hole None Conv.  B.T. \_\_\_\_\_ Damaged Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No \_\_\_\_\_  
 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_ Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
 Straddle Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_  
 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
 Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 6 Ft. Size 5 1/2 O. D.

RECORDERS Depth 3260 Ft. Clock No. 6861 Depth 3275 Ft. Clock No. 109  
 Top Make Amerada Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 60 Inside Outside  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 11:30 A. M  
 Tool Open I.F.P. From 11:34 A. M. to 11:39 A. M. Hr. 5 Min. From (B) 14 P.S.I. To (C) 14 P.S.I.  
 Tool Closed I.C.I.P. From 11:39 A. M. to 12:09 M. Hr. 30 Min. (D) 516 P.S.I.  
 Tool Open F.F.P. From 12:09 M. to 1:09 A.M. 1 Hr. Min. From (E) 18 P.S.I. To (F) 18 P.S.I.  
 Tool Closed F.C.I.P. From 1:09 A.M. to 1:39 A.M. Hr. 30 Min. (G) 46 P.S.I.  
 Initial Hydrostatic Pressure (A) 1778 P.S.I. Final Hydrostatic Pressure (H) 1760 P.S.I.

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

BLOW Weak to dead in forty minutes Bottom Choke Size 3/4 in.  
 Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 30' mid with specks of oil

Reversed Out Yes  No \_\_\_\_\_ Mud Type starch Viscosity 51 Weight 9.2 Maximum Temp. 112 °F  
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 2377 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 31 ft.

Remarks \_\_\_\_\_

# WESTERN TESTING CO., INC.

## Pressure Data

Date September 13, 1964 Test Ticket No. 4079  
 Recorder No. 1558 Capacity 4200 Location 3260 Ft.  
 Clock No. 6861 Elevation 1502 Derrick Floor Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1778</u> P.S.I.	Opened Tool	<u>11:30 A.</u> M	
B First Initial Flow Pressure	<u>14</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>14</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>516</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>18</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>18</u> P.S.I.			
G Final Closed-in Pressure	<u>46</u> P.S.I.			
H Final Hydrostatic Mud	<u>1760</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: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

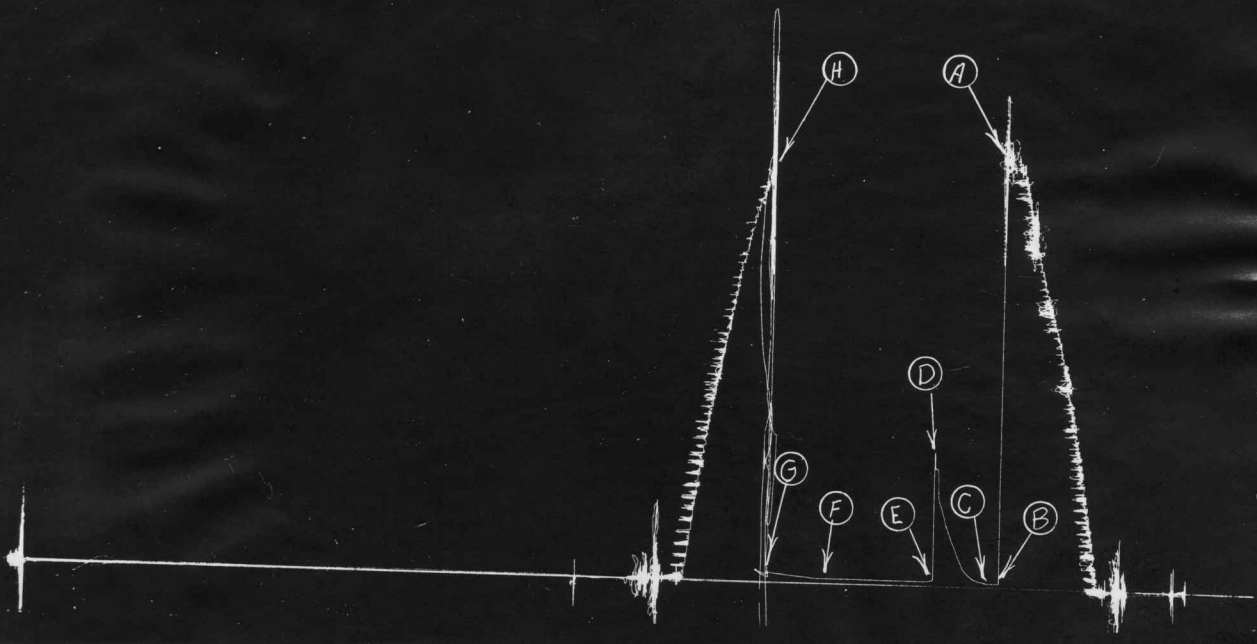
**Second Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**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>14</u>	<u>0</u>	<u>14</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>18</u>
P 2 <u>5</u>	<u>14</u>	<u>3</u>	<u>18</u>	<u>5</u>	<u>18</u>	<u>3</u>	<u>21</u>
P 3		<u>6</u>	<u>27</u>	<u>10</u>	<u>18</u>	<u>6</u>	<u>25</u>
P 4		<u>9</u>	<u>33</u>	<u>15</u>	<u>18</u>	<u>9</u>	<u>29</u>
P 5		<u>12</u>	<u>48</u>	<u>20</u>	<u>18</u>	<u>12</u>	<u>33</u>
P 6		<u>15</u>	<u>80</u>	<u>25</u>	<u>18</u>	<u>15</u>	<u>35</u>
P 7		<u>18</u>	<u>122</u>	<u>30</u>	<u>18</u>	<u>18</u>	<u>37</u>
P 8		<u>21</u>	<u>177</u>	<u>35</u>	<u>18</u>	<u>21</u>	<u>40</u>
P 9		<u>24</u>	<u>221</u>	<u>40</u>	<u>18</u>	<u>24</u>	<u>42</u>
P 10		<u>27</u>	<u>278</u>	<u>45</u>	<u>18</u>	<u>27</u>	<u>44</u>
P 11		<u>30</u>	<u>350</u>	<u>50</u>	<u>18</u>	<u>30</u>	<u>46</u>
P 12		<u>33</u>	<u>516</u>	<u>55</u>	<u>18</u>		
P 13				<u>60</u>	<u>18</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Pickrell Drilling Co.  
Campbell #F-2

TEST # 2  
TKT # 4079



This is an actual photograph of recorder chart.

POINT	PRESSURE	PSI
(A) Initial Hydrostatic Mud .....	1778	PSI
(B) First Initial Flow Pressure .....	14	PSI
(C) First Final Flow Pressure .....	14	PSI
(D) Initial Closed-in Pressure .....	516	PSI
(E) Second Initial Flow Pressure .....	18	PSI
(F) Second Final Flow Pressure .....	18	PSI
(G) Final Closed-in Pressure .....	46	PSI
(H) Final Hydrostatic Mud .....	1760	PSI



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

Company Pickrell Drilling Company Lease & Well No. Campbell #P-2  
 Elevation 1502 Derrick Floor Ticket Number 4080  
 Date Sept. 14, 1964 Sec. 33 Twp. 29s Range 6w County Kingman State Kansas  
 Test Approved by Ralph Ruwe Western Representative George Tew

Formation Test No. 3 O.K.  Misrun  Interval Tested From 3585' to 3602' Total Depth 3602'  
 Size Main Hole 7 5/8 Rat Hole None Conv.  B.T.  Damaged Yes  No  Conv.  B.T.  Damaged Yes  No   
 Packer Depth 3585 Ft. Size 6 3/4 Packer Depth 3580 Ft. Size 6 3/4  
 Straddle Yes  No  Conv.  B.T.  Damaged Yes  No   
 Packer Depth                      Ft. Size                       
 Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 P. H. Anchor Length 17 Ft. Size 5 1/2 O. D.

RECORDERS Depth 3594 Ft. Clock No. 6861 Depth 3597 Ft. Clock No. 105  
 Top Make Amerada Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 60 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 9:12 P. M  
 Tool Open I.F.P. From 9:15 M to 9:20 M Hr. 5 Min. From (B) 115 P.S.I. To (C) 118 P.S.I.  
 Tool Closed I.C.I.P. From 9:20 P M. to 9:50 M. Hr. 30 Min. (D) 148 P.S.I.  
 Tool Open F.F.P. From 9:50 P M. to 10:50 M. 1 Hr. Min. From (E) 183 P.S.I. To (F) 174 P.S.I.  
 Tool Closed F.C.I.P. From 10:50 M. to 11:20 M. Hr. 30 Min. (G) 1290 P.S.I.  
 Initial Hydrostatic Pressure (A) 1955 P.S.I. Final Hydrostatic Pressure (H) 1934 P.S.I.

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

BLOW Strong blow for 5 minutes. Gas to surface in 4 minutes, decreasing to good blow Bottom Choke Size 3/4 in.  
 Did Well Flow  Yes  No Recovery Total Ft. 1260' - 20' heavy oil and gas cut mud - 60' watery oil and gas cut mud - 340' watery oil - 540' oily water - 300' water Mud  
 Reversed Out  Yes  No Mud Type starch Viscosity 50 Weight 9.9 Maximum Temp. 130 °F  
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size                      Make                      Ser. No. 130  
 Type Circ. Sub. plug Did Tool Plug? no Where?                      Did Packer Hold? yes  
 Length Drill Pipe 2695 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars                      ft.  
 I. D. Drill Collars                      in. Length D. S. T. Tool 37 ft.

Remarks

# WESTERN TESTING CO., INC.

## Pressure Data

Date September 14, 1964 Test Ticket No. 4080  
 Recorder No. 1564 Capacity 4200 Location 3594 Ft.  
 Clock No. 6861 Elevation 1502 Derrick Floor Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1955</u> P.S.I.	Opened Tool	<u>9:12 P.</u> M	
B First Initial Flow Pressure	<u>115</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>118</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
D Initial Closed-in Pressure	<u>1483</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>62</u> Mins.
E Second Initial Flow Pressure	<u>183</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>38</u> Mins.
F Second Final Flow Pressure	<u>474</u> P.S.I.			
G Final Closed-in Pressure	<u>1290</u> P.S.I.			
H Final Hydrostatic Mud	<u>1934</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: 12 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

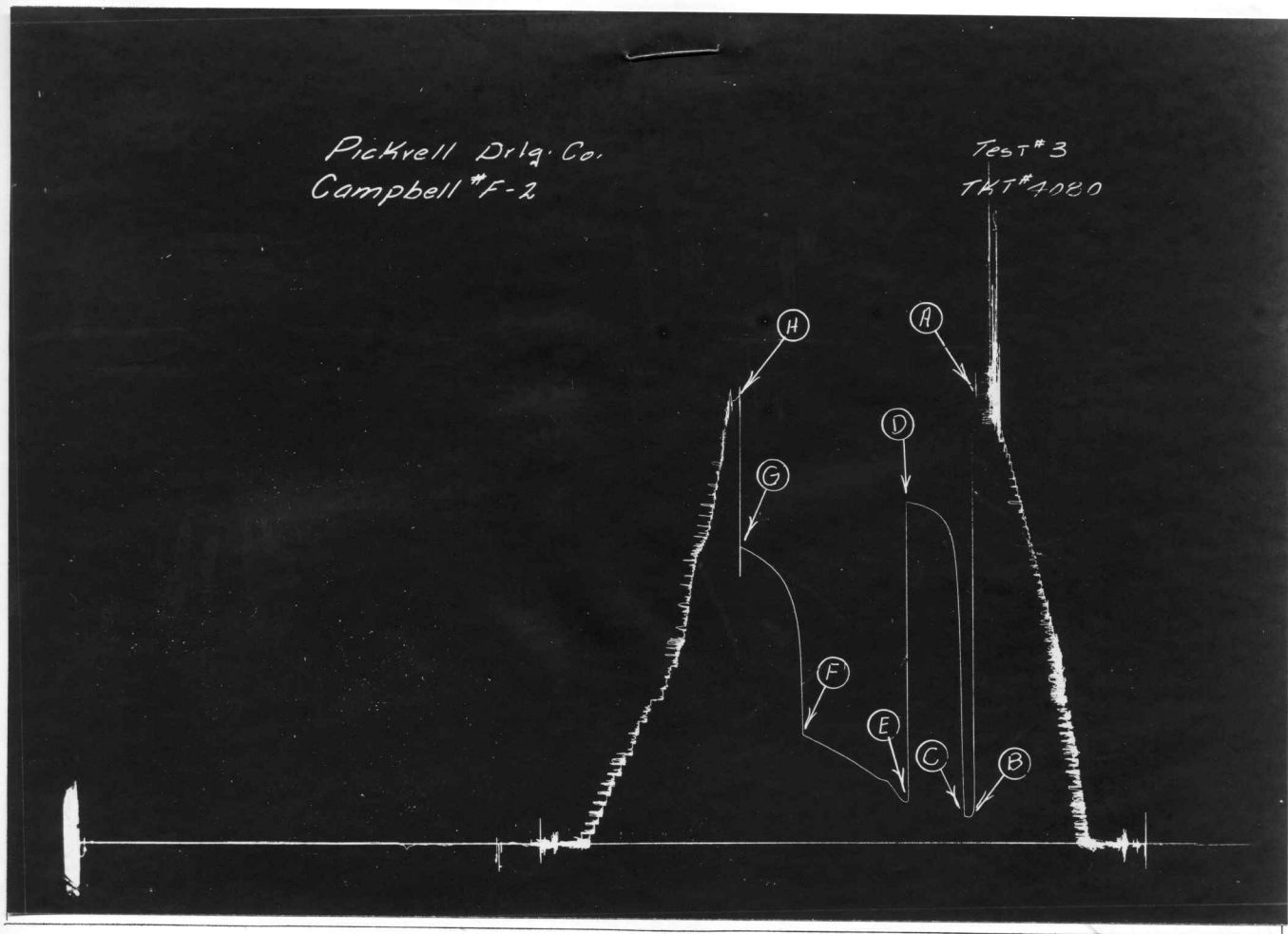
**Second Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 2 Min.

**Final Shut-In**  
 Breakdown: 12 Inc.  
 of 3 mins. and a  
 final inc. of 2 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>115</u>	<u>0</u>	<u>118</u>	<u>0</u>	<u>183</u>	<u>0</u>	<u>474</u>
P 2 <u>5</u>	<u>118</u>	<u>3</u>	<u>516</u>	<u>5</u>	<u>196</u>	<u>3</u>	<u>941</u>
P 3		<u>6</u>	<u>954</u>	<u>10</u>	<u>244</u>	<u>6</u>	<u>1035</u>
P 4		<u>9</u>	<u>1221</u>	<u>15</u>	<u>274</u>	<u>9</u>	<u>1102</u>
P 5		<u>12</u>	<u>1338</u>	<u>20</u>	<u>295</u>	<u>12</u>	<u>1174</u>
P 6		<u>15</u>	<u>1388</u>	<u>25</u>	<u>320</u>	<u>15</u>	<u>1173</u>
P 7		<u>18</u>	<u>1424</u>	<u>30</u>	<u>345</u>	<u>18</u>	<u>1200</u>
P 8		<u>21</u>	<u>1441</u>	<u>35</u>	<u>373</u>	<u>21</u>	<u>1215</u>
P 9		<u>24</u>	<u>1455</u>	<u>40</u>	<u>394</u>	<u>24</u>	<u>1234</u>
P 10		<u>27</u>	<u>1464</u>	<u>45</u>	<u>413</u>	<u>27</u>	<u>1250</u>
P 11		<u>30</u>	<u>1472</u>	<u>50</u>	<u>432</u>	<u>30</u>	<u>1263</u>
P 12		<u>33</u>	<u>1479</u>	<u>55</u>	<u>453</u>	<u>33</u>	<u>1273</u>
P 13		<u>36</u>	<u>1453</u>	<u>60</u>	<u>466</u>	<u>36</u>	<u>1284</u>
P 14				<u>62</u>	<u>474</u>	<u>38</u>	<u>1290</u>
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Pickrell Drilling Co.  
Campbell #F-2

Test # 3  
TKT # 4080



This is an actual photograph of recorder chart.

**POINT**

**PRESSURE**

(A) Initial Hydrostatic Mud .....	1955	PSI
(B) First Initial Flow Pressure .....	115	PSI
(C) First Final Flow Pressure .....	118	PSI
(D) Initial Closed-in Pressure .....	1483	PSI
(E) Second Initial Flow Pressure .....	183	PSI
(F) Second Final Flow Pressure .....	474	PSI
(G) Final Closed-in Pressure .....	1290	PSI
(H) Final Hydrostatic Mud .....	1934	PSI



Home Office: Great Bend, Kansas  
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Company Pickrell Drilling Company Lease & Well No. Campbell #F-2  
 Elevation 1502 Derrick Floor Ticket Number 4081  
 Date September 16, 1964 Sec. 33 Twp. 29s Range 6w County Kingman State Kansas  
 Test Approved by Ralph W. Ruwwe Western Representative George Tew

Formation Test No. 4 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3686' to 3700' Total Depth 3700'  
 Size Main Hole 7 5/8 Rat Hole None Conv.  B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_  
 Packer Depth 3686 Ft. Size 6 3/4 Packer Depth 3681 Ft. Size 6 3/4  
 Straddle \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
 Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 14 Ft. Size 5 1/2 O. D.

RECORDERS Depth 3691 Ft. Clock No. 6861 Depth 3694 Ft. Clock No. 105  
 Top Make Amerada Cap. 4200 No. 1558 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Western Cap. 4000 No. 60 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 3:45 A. M  
 Tool Open I.F.P. From 3:48 M to 3:53 M Hr. 5 Min. From (B) 54 P.S.I. To (C) 54 P.S.I.  
 Tool Closed I.C.I.P. From 3:53 A M. to 4:23 M. Hr. 30 Min. (D) 1175 P.S.I.  
 Tool Open F.F.P. From 4:23 A M. to 5:53 A M. 1 Hr. 30 Min. From (E) 73 P.S.I. To (F) 166 P.S.I.  
 Tool Closed F.C.I.P. From 5:53 A M. to 6:23 A M. Hr. 30 Min. (G) 1018 P.S.I.  
 Initial Hydrostatic Pressure (A) 1995 P.S.I. Final Hydrostatic Pressure (H) 1978 P.S.I.

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

BLOW Strong blow throughout test Bottom Choke Size 3/4 In.  
 Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 320' total - 1200' Gas in Pipe - 135' slightly oil cut mud  
185' water Mud

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 50 Weight 9.8 Maximum Temp. \_\_\_\_\_ °F  
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. 129  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? \_\_\_\_\_  
 Length Drill Pipe 2796 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars yes ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 34 ft.

Remarks \_\_\_\_\_

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

Date September 16, 1964 Test Ticket No. 4081  
 Recorder No. 1558 Capacity 4200 Location 3691 Ft.  
 Clock No. 6861 Elevation 1502 Derrick Floor Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1995</u> P.S.I.	Opened Tool	<u>3:45 A.</u> M	
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>54</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>32</u> Mins.
D Initial Closed-in Pressure	<u>1175</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>73</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>166</u> P.S.I.			
G Final Closed-in Pressure	<u>1018</u> P.S.I.			
H Final Hydrostatic Mud	<u>1978</u> P.S.I.			

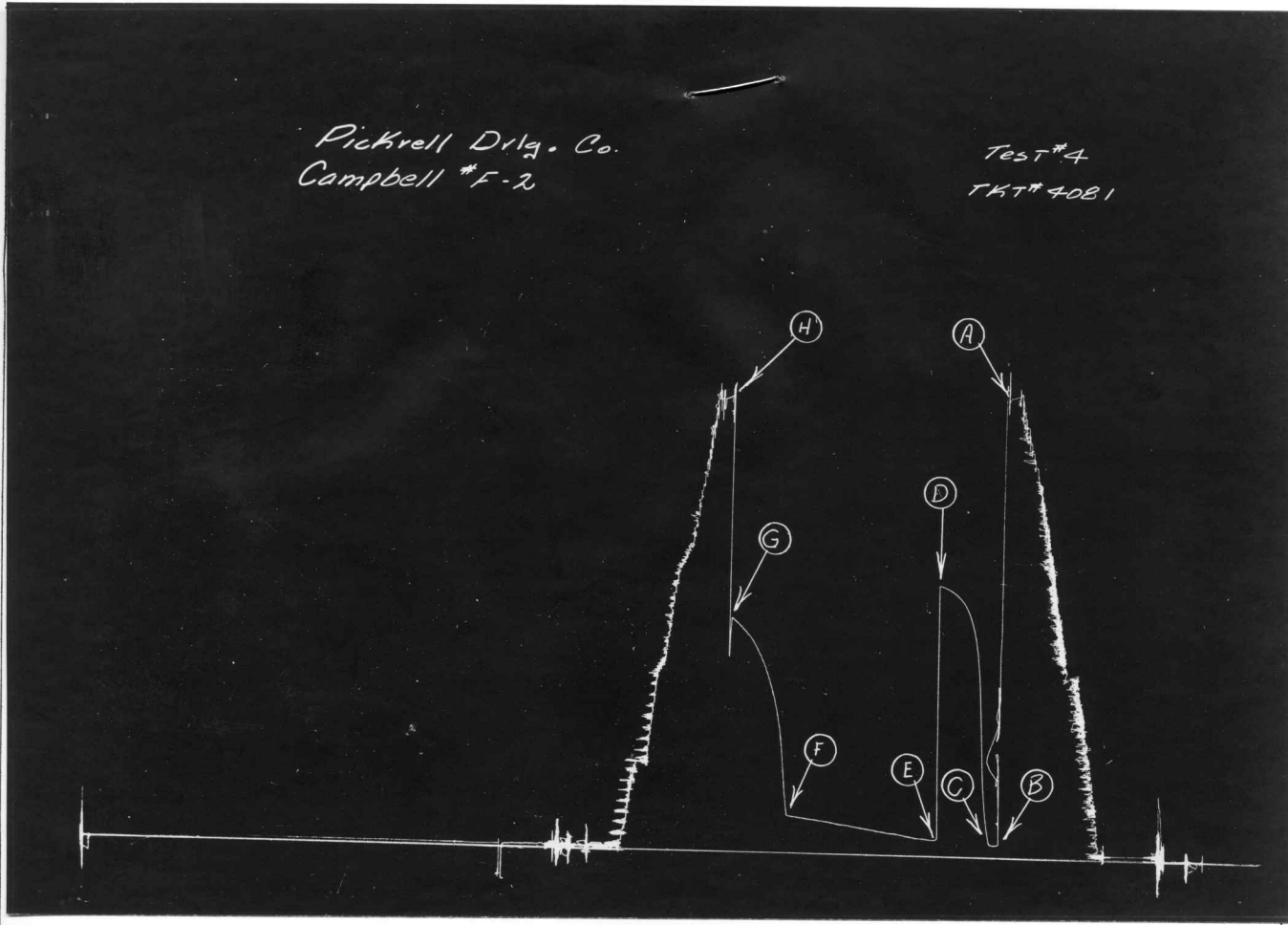
**PRESSURE BREAKDOWN**

<b>First Flow Press.</b> Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>12</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>54</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>73</u>	<u>0</u>	<u>166</u>
P 2 <u>5</u>	<u>54</u>	<u>3</u>	<u>202</u>	<u>5</u>	<u>75</u>	<u>3</u>	<u>394</u>
P 3		<u>6</u>	<u>506</u>	<u>10</u>	<u>78</u>	<u>6</u>	<u>587</u>
P 4		<u>9</u>	<u>836</u>	<u>15</u>	<u>82</u>	<u>9</u>	<u>693</u>
P 5		<u>12</u>	<u>972</u>	<u>20</u>	<u>88</u>	<u>12</u>	<u>764</u>
P 6		<u>15</u>	<u>1048</u>	<u>25</u>	<u>96</u>	<u>15</u>	<u>824</u>
P 7		<u>18</u>	<u>1094</u>	<u>30</u>	<u>10.</u>	<u>18</u>	<u>870</u>
P 8		<u>21</u>	<u>1127</u>	<u>35</u>	<u>107</u>	<u>21</u>	<u>908</u>
P 9		<u>24</u>	<u>1144</u>	<u>40</u>	<u>111</u>	<u>24</u>	<u>939</u>
P 10		<u>27</u>	<u>1158</u>	<u>45</u>	<u>118</u>	<u>27</u>	<u>966</u>
P10		<u>30</u>	<u>1171</u>	<u>50</u>	<u>124</u>	<u>30</u>	<u>987</u>
P11		<u>32</u>	<u>1175</u>	<u>55</u>	<u>130</u>	<u>33</u>	<u>1006</u>
P11				<u>60</u>	<u>137</u>	<u>36</u>	<u>1018</u>
P12				<u>65</u>	<u>143</u>		
P13				<u>70</u>	<u>149</u>		
P14				<u>75</u>	<u>153</u>		
P15				<u>80</u>	<u>158</u>		
P16				<u>85</u>	<u>164</u>		
P17				<u>90</u>	<u>166</u>		
P18							
P19							
P20							

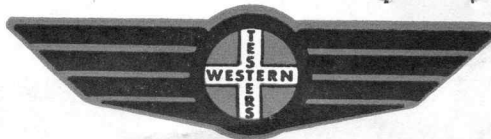
Pickrell Drilling Co.  
Campbell #F-2

Test #4  
TKT# 4081



This is an actual photograph of recorder chart.

POINT	PRESSURE	PSI
(A) Initial Hydrostatic Mud .....	1995	PSI
(B) First Initial Flow Pressure .....	54	PSI
(C) First Final Flow Pressure .....	54	PSI
(D) Initial Closed-in Pressure .....	1175	PSI
(E) Second Initial Flow Pressure .....	73	PSI
(F) Second Final Flow Pressure .....	166	PSI
(G) Final Closed-in Pressure .....	1018	PSI
(H) Final Hydrostatic Mud .....	1978	PSI



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

Company Pickrell Drilling Company Lease & Well No. Campbell #F-2  
Elevation 1502 Derrick Floor Ticket Number 4082  
Date Sept. 16, 1964 Sec. 33 Twp. 29 S Range 6 W County Kingman State Kansas  
Test Approved by Ralph W. Ruwwe Western Representative George Tew

Formation Test No. 5 O.K.  Misrun  Interval Tested From 3723' to 3736' Total Depth 3736'  
Size Main Hole 7 5/8 Rat Hole None Conv.  B.T.  Damaged Yes  No  Conv.  B.T.  Damaged Yes  No   
Packer Depth 3723 Ft. Size 6 3/4 Packer Depth 3718 Ft. Size 6 3/4  
Straddle Yes  No  Conv.  B.T.  Damaged Yes  No   
Packer Depth 3723 Ft. Size 6 3/4  
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 13 Ft. Size 5 1/2 O. D.

RECORDERS Depth 3727 Ft. Clock No. 6861 Depth 3730 Ft. Clock No. 105  
Top Make Amerada Cap. 4200 No. 1558 Inside Outside Bottom Make Western Cap. 4000 No. 60 Inside Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 3:22 5:32 P. M  
Tool Open I.F.P. From 5:35 P. M to 5:40 P. M Hr. 5 Min. From (B) 52 P.S.I. To (C) 52 P.S.I.  
Tool Closed I.C.I.P. From 5:40 P. M. to 6:10 P. M. Hr. 30 Min. (D) 778 P.S.I.  
Tool Open F.F.P. From 6:10 P. M. to 7:10 P. M. 1 Hr. Min. From (E) 61 P.S.I. To (F) 73 P.S.I.  
Tool Closed F.C.I.P. From 7:10 P. M. to 7:40 P. M. Hr. 30 Min. (G) 772 P.S.I.  
Initial Hydrostatic Pressure (A) 2014 P.S.I. Final Hydrostatic Pressure (H) 2000 P.S.I.

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

BLOW Strong throughout test. Bottom Choke Size 3/4 in.  
Did Well Flow Yes  No  Recovery Total Ft. 130' slightly oil and gas cut mud

Reversed Out Yes  No  Mud Type starch Viscosity 47 Weight 9.6 Maximum Temp. 120 °F  
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
Type Circ. Sub. Plug Did Tool Plug? No Where? \_\_\_\_\_ Did Packer Hold? Yes  
Length Drill Pipe 2833 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 33 ft.

Remarks \_\_\_\_\_

# WESTERN TESTING CO., INC.

## Pressure Data

Date September 16, 1964

Test Ticket No. 4082

Recorder No. 1558 Capacity 4200 Location 3727 Ft.

Clock No. 6861 Elevation 1502 Derrick Floor Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2014</u> P.S.I.	Opened Tool	<u>5:32 P.</u> M	
B First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>52</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>31</u> Mins.
D Initial Closed-in Pressure	<u>778</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>58</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>73</u> P.S.I.			
G Final Closed-in Pressure	<u>772</u> P.S.I.			
H Final Hydrostatic Mud	<u>2000</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 1 Min.

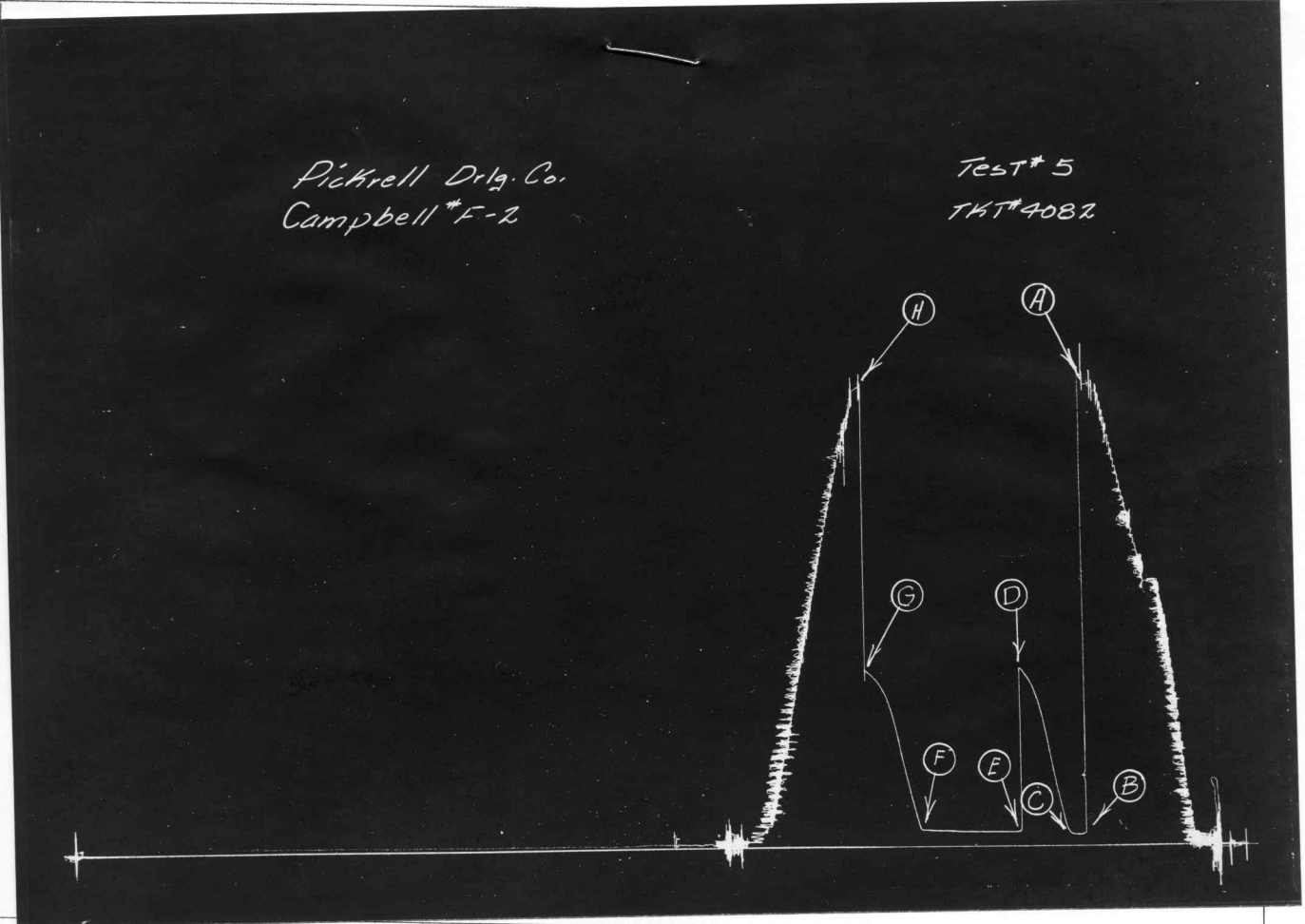
**Second Flow Pressure**  
 Breakdown: 11 Inc.  
 of 5 mins. and a  
 final inc. of 3 Min.

**Final Shut-In**  
 Breakdown: 11 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>52</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>73</u>
P 2 <u>5</u>	<u>52</u>	<u>3</u>	<u>84</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>162</u>
P 3		<u>6</u>	<u>177</u>	<u>10</u>	<u>62</u>	<u>6</u>	<u>236</u>
P 4		<u>9</u>	<u>265</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>322</u>
P 5		<u>12</u>	<u>369</u>	<u>20</u>	<u>64</u>	<u>12</u>	<u>419</u>
P 6		<u>15</u>	<u>453</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>529</u>
P 7		<u>18</u>	<u>556</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>606</u>
P 8		<u>21</u>	<u>631</u>	<u>35</u>	<u>66</u>	<u>21</u>	<u>670</u>
P 9		<u>24</u>	<u>697</u>	<u>40</u>	<u>68</u>	<u>24</u>	<u>705</u>
P10		<u>27</u>	<u>735</u>	<u>45</u>	<u>69</u>	<u>27</u>	<u>735</u>
P11		<u>30</u>	<u>770</u>	<u>50</u>	<u>70</u>	<u>30</u>	<u>757</u>
P12		<u>31</u>	<u>778</u>	<u>55</u>	<u>71</u>	<u>33</u>	<u>772</u>
P13				<u>58</u>	<u>73</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell Dring. Co.  
Campbell #F-2

Test # 5  
TKT # 4082



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud .....	2014	PSI
(B) First Initial Flow Pressure .....	52	PSI
(C) First Final Flow Pressure .....	52	PSI
(D) Initial Closed-in Pressure .....	778	PSI
(E) Second Initial Flow Pressure .....	61	PSI
(F) Second Final Flow Pressure .....	73	PSI
(G) Final Closed-in Pressure .....	772	PSI
(H) Final Hydrostatic Mud .....	2000	PSI



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

Company Pickrell Drilling Company Lease & Well No. Campbell #F-2  
 Elevation 1502 Derrick Floor Ticket Number 4083  
 Date Sept. 17, 1964 Sec. 33 Twp. 29s Range 6w County Kingman State Kansas  
 Test Approved by Ralph W. Ruwe Western Representative George Tew

Formation Test No. 6 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3736' to 3741' Total Depth 3741'  
 Size Main Hole 7 5/8 Rat Hole None Conv.  B.T. \_\_\_\_\_ Damaged Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No \_\_\_\_\_  
 Packer Depth 3736 Ft. Size 6 3/4 Packer Depth 3731 Ft. Size 6 3/4  
 Straddle Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_  
 Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
 Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 5 Ft. Size 5 1/2 O. D.

RECORDERS  
 Depth 3724 Ft. Clock No. 6861 Depth 3739 Ft. Clock No. 105  
 Top Make Amerada Cap. 4200 No. 1558 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Western Cap. 4000 No. 60 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 3:25 A. M  
 Tool Open I.F.P. From 3:27 A. M to 3:32 A. M Hr. 5 Min. From (B) 12 P.S.I. To (C) 12 P.S.I.  
 Tool Closed I.C.I.P. From 3:32 A. M. to 4:02 A. M. Hr. 30 Min. (D) 827 P.S.I.  
 Tool Open F.F.P. From 4:02 A. M. to 5:02 A. M. Hr. 1 Min. From (E) 25 P.S.I. To (F) 61 P.S.I.  
 Tool Closed F.C.I.P. From 5:02 A. M. to 5:32 A. M. Hr. 30 Min. (G) 768 P.S.I.  
 Initial Hydrostatic Pressure (A) 1962 P.S.I. Final Hydrostatic Pressure (H) 1937 P.S.I.

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

BLOW Strong throughout test Bottom Choke Size 3/4 in.  
 Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 180' fluid total. - 2000' Gas In Pipe - 135' oil cut mud  
45' salt water

Reversed Out Yes  No \_\_\_\_\_ Mud Type starch Viscosity 47 Weight 9.6 Maximum Temp. 124 °F  
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 2841 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 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 \_\_\_\_\_

