



Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Graves Drilling Company, Inc. Lease & Well No. Befort #1  
 Elevation 2152 Kelly Bushings; Formation = K.C. Ticket Number 6025  
 Date Feb. 1, 1965 Sec. 23 Twp. 14s Range 19w County Ellis State Kansas  
 Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 1 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3500' to 3585' Total Depth 3545'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No Conv. \_\_\_\_\_ B.T.  Damaged Yes  No  
 Packer Depth 3500 Ft. Size 6 3/4 Packer Depth 3495 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 3508 Ft. Clock No. 6866 Depth 3510 Ft. Clock No. 127  
 Top Make Amerada Cap. 3150 No. 1564 Inside Outside Bottom Make Western Cap. 4000 No. 17 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 1:18 P M  
 Tool Open I.F.P. From 1:21P M to 1:26 M Hr. 5 Min. From (B) \_\_\_\_\_ P.S.I. To (C) 40 P.S.I.  
 Tool Closed I.C.I.P. From 1:26 M. to 1:56 M. Hr. 30 Min. (D) \_\_\_\_\_ P.S.I. 818 P.S.I.  
 Tool Open F.F.P. From 1:56P M. to 2:56 M. Hr. 60 Min. From (E) 41 P.S.I. To (F) 44 P.S.I.  
 Tool Closed F.C.I.P. From 2:56 M. to 3:26 M. Hr. 30 Min. (G) \_\_\_\_\_ P.S.I. 153 P.S.I.  
 Initial Hydrostatic Pressure (A) 1912 P.S.I. Final Hydrostatic Pressure (H) 1889 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak blow five minutes. Flushed tool. Bottom Choke Size 3/4 In.  
 Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 20' mud

Reversed Out Yes  No \_\_\_\_\_ Mud Type starch Viscosity 42 Weight 10 Maximum Temp. 105 °F  
 EXTRA EQUIPMENT: Dual Packers dual 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 2890 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 590 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 \_\_\_\_\_

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

Date February 1, 1968 Test Ticket No. 6025  
 Recorder No. 1564 Capacity 3150 Location 3508 Ft.  
 Clock No. 6866 Elevation 2152 Kelly Bushings Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1912</u> P.S.I.	Opened Tool	<u>1:18 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>40</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>40</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>818</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>41</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>44</u> P.S.I.			
G Final Closed-in Pressure	<u>153</u> P.S.I.			
H Final Hydrostatic Mud	<u>1889</u> P.S.I.			

**PRESSURE BREAKDOWN**

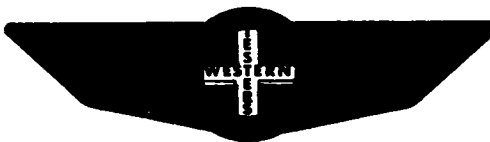
<b>First Flow Press.</b> Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>10</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>40</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>44</u>
<u>5</u> 2	<u>40</u>	<u>3</u>	<u>65</u>	<u>5</u>	<u>41</u>	<u>3</u>	<u>49</u>
P 3		<u>6</u>	<u>111</u>	<u>10</u>	<u>41</u>	<u>6</u>	<u>54</u>
P 4		<u>9</u>	<u>188</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>58</u>
P 5		<u>12</u>	<u>312</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>65</u>
P 6		<u>15</u>	<u>428</u>	<u>25</u>	<u>44</u>	<u>15</u>	<u>74</u>
P 7		<u>18</u>	<u>565</u>	<u>30</u>	<u>44</u>	<u>18</u>	<u>83</u>
P 8		<u>21</u>	<u>659</u>	<u>35</u>	<u>44</u>	<u>21</u>	<u>97</u>
P 9		<u>24</u>	<u>737</u>	<u>40</u>	<u>44</u>	<u>24</u>	<u>111</u>
P10		<u>27</u>	<u>794</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>133</u>
P11		<u>29</u>	<u>818</u>	<u>50</u>	<u>44</u>	<u>30</u>	<u>153</u>
P12				<u>55</u>	<u>44</u>		
P13				<u>60</u>	<u>44</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Graves Drlg. Co. Inc.  
Befort #1

Test #1  
TKT # 6025





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

Company Graves Drilling Company, Inc. Lease & Well No Befort #1  
 Elevation 2152 Kelly Bushings; Formation=K.C. Ticket Number 8051  
 Date Feb. 2, 1965 Sec. 23 Twp. 14s Range 19W County Ellis State Kansas  
 Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3616' to 3657' Total Depth 3657'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No Conv. \_\_\_\_\_ B.T.  Damaged Yes  No  
 Packer Depth 3616 Ft. Size 6 3/4 Packer Depth 3611 Ft. Size 6 3/4  
 Straddle Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No  
 Tool Size 5 1/2 OD Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
 Tool Jt. Size XXXXM 4 1/2 FH Anchor Length 41 Ft. Size XXXXM 5 1/2 OD

RECORDERS Depth 3624 Ft. Clock No. 6866 Depth 3626 Ft. Clock No. 127  
 Top Make Amerada Cap. 3150 No. 1564 Inside XXXXM Bottom Make Western Cap. 4000 No. 17 Outside XXXXM  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 3:18 P M  
 Tool Open I.F.P. From 3:21P M to 3:26 M Hr. 5 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.  
 Tool Closed I.C.I.P. From 3:26 M. to 3:56 M. Hr. 30 Min. (D) 855 P.S.I.  
 Tool Open F.F.P. From 3:56P M. to 4:56 M. Hr. 60 Min. From (E) 34 P.S.I. To (F) 35 P.S.I.  
 Tool Closed F.C.I.P. From 4:56 M. to 5:26 M. Hr. 30 Min. (G) 54 P.S.I.  
 Initial Hydrostatic Pressure (A) 1972 P.S.I. Final Hydrostatic Pressure (H) 1944 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

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

Reversed Out Yes  No Mud Type starch Viscosity 41 Weight 9.8 Maximum Temp. 108 °F

EXTRA EQUIPMENT: Dual Packers dual 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 3006 ft. I.D. Drill Pipe 3.8 In. Length Weight Pipe 590 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
 I. D. Drill Collars \_\_\_\_\_ in. Length D. S. T. Tool 61 ft.

Remarks



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

Date February 2, 1965 Test Ticket No. 8051  
 Recorder No. 1564 Capacity 3150 Location 3624 Ft.  
 Clock No. 6866 Elevation 2152 Kelly Bushings Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1972</u> P.S.I.	Opened Tool	<u>3:18 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>32</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>855</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>59</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>35</u> P.S.I.			
G Final Closed-in Pressure	<u>54</u> P.S.I.			
H Final Hydrostatic Mud	<u>1944</u> P.S.I.			

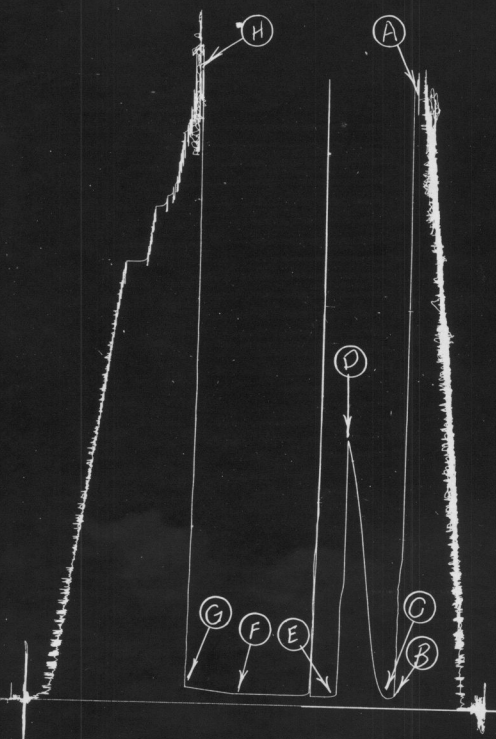
**PRESSURE BREAKDOWN**

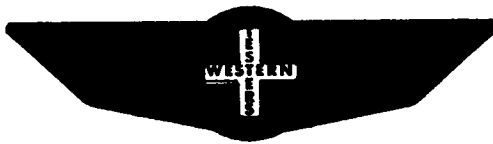
<b>First Flow Press.</b>	<b>Initial Shut-In</b>	<b>Second Flow Pressure</b>	<b>Final Shut-In</b>
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>10</u> Inc.
of <u>5</u> mins. and a	of <u>3</u> mins. and a	of <u>5</u> mins. and a	of <u>3</u> mins. and a
final inc. of <u>0</u> Min.	final inc. of <u>0</u> Min.	final inc. of <u>4</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>32</u>	<u>0</u> <u>32</u>	<u>0</u> <u>34</u>	<u>0</u> <u>35</u>			
P 2	<u>5</u> <u>32</u>	<u>3</u> <u>48</u>	<u>5</u> <u>34</u>	<u>3</u> <u>37</u>			
P 3	<u>        </u>	<u>6</u> <u>94</u>	<u>10</u> <u>34</u>	<u>6</u> <u>39</u>			
P 4	<u>        </u>	<u>9</u> <u>156</u>	<u>15</u> <u>34</u>	<u>9</u> <u>41</u>			
P 5	<u>        </u>	<u>12</u> <u>254</u>	<u>20</u> <u>35</u>	<u>12</u> <u>43</u>			
P 6	<u>        </u>	<u>15</u> <u>403</u>	<u>25</u> <u>35</u>	<u>15</u> <u>44</u>			
P 7	<u>        </u>	<u>18</u> <u>621</u>	<u>30</u> <u>35</u>	<u>18</u> <u>46</u>			
P 8	<u>        </u>	<u>21</u> <u>656</u>	<u>35</u> <u>35</u>	<u>21</u> <u>48</u>			
P 9	<u>        </u>	<u>24</u> <u>748</u>	<u>40</u> <u>35</u>	<u>24</u> <u>51</u>			
P10	<u>        </u>	<u>27</u> <u>826</u>	<u>45</u> <u>35</u>	<u>27</u> <u>52</u>			
P11	<u>        </u>	<u>30</u> <u>855</u>	<u>50</u> <u>35</u>	<u>30</u> <u>54</u>			
P12	<u>        </u>	<u>        </u>	<u>55</u> <u>35</u>	<u>        </u>			
P13	<u>        </u>	<u>        </u>	<u>59</u> <u>35</u>	<u>        </u>			
P14	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			
P15	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			
P16	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			
P17	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			
P18	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			
P19	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			
P20	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>			

Graves. Drlg. Co. Inc.  
Beport #1

TEST # 2  
TKT # 8051





Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Graves Drilling Company, Inc. Lease & Well No. Befort #1  
 Elevation 2152 Kelly Bushings; Formation-Arb. Ticket Number 8052  
 Date Feb.; 3, 1965 Sec. 23 Twp. 14s Range 19W County Ellis State Kansas  
 Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 3 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3776' to 3782' Total Depth 3782'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_  
 Packer Depth 3776 Ft. Size 6 3/4 Packer Depth 3771 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 3764 Ft. Clock No. 6866 Depth 3779 Ft. Clock No. 127  
 Top Make Amerada Cap. 3150 No. 1564 Inside 3650 Bottom Make Western Cap. 4000 No. 17 Outside  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Outside \_\_\_\_\_  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 3:13 P M  
 Tool Open I.F.P. From 3:16 M to 3:21 M Hr. 5 Min. From (B) 23 P.S.I. To (C) 23 P.S.I.  
 Tool Closed I.C.I.P. From 3:21 M. to 3:51 M. Hr. 30 Min. (D) 1112 P.S.I.  
 Tool Open F.F.P. From 3:51P M. to 5:21 M. Hr. 90 Min. From (E) 37 P.S.I. To (F) 67 P.S.I.  
 Tool Closed F.C.I.P. From 5:21 M. to 6:06 M. Hr. 45 Min. (G) 754 P.S.I.  
 Initial Hydrostatic Pressure (A) 2078 P.S.I. Final Hydrostatic Pressure (H) 2048 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak blow throughout test. Bottom Choke Size 3/4 in.  
 Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 60' gas in pipe - 115' muddy oil

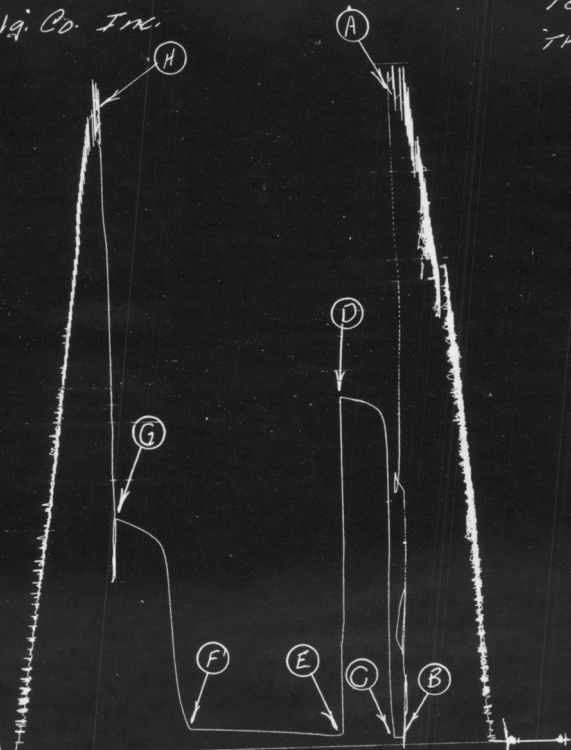
Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 49 Weight 9.9 Maximum Temp. 113 °F  
 EXTRA EQUIPMENT: Dual Packers plug Safety Joint no Jars: Size no Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 3161 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 590 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 \_\_\_\_\_



Graves, Delq. Co. Ind.  
Bofort #1

Test # 3  
T.H.T # 3052





Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Graves Drilling Company

Lease & Well No. Befort #1

Elevation 2152 Kelly Bushings; Formation-Arb.

Ticket Number 8053

Date Feb. 4, 1965 Sec. 23 Twp. 14s Range 19W County Ellis State Kansas

Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 4 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3776' to 3787' Total Depth 3787'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_  
 Packer Depth 3776 Ft. Size 6 3/4 Packer Depth 3771 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 11 Fr. Size 5 1/2 OD

RECORDERS Depth 3780 Ft. Clock No. 6866 Depth 3782 Ft. Clock No. 127  
 Top Make Amerada Cap. XXXXX No. 1564 Inside Outside Bottom Make Western Cap. 4000 No. 17 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 3:18 A M  
 Tool Open I.F.P. From 3:21A M to 3:26 M Hr. 5 Min. From (B) 34 P.S.I. To (C) 34 P.S.I.  
 Tool Closed I.C.I.P. From 3:26 M. to 3:56 M. Hr. 30 Min. (D) 838 P.S.I.  
 Tool Open F.F.P. From 3:56A M. to 5:26A M. Hr. 90 Min. From (E) 48 P.S.I. To (F) 102 P.S.I.  
 Tool Closed F.C.I.P. From 5:26A M. to 6:11A M. Hr. 45 Min. (G) 307 P.S.I.  
 Initial Hydrostatic Pressure (A) 2061 P.S.I. Final Hydrostatic Pressure (H) 2040 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak blow throughout test. Bottom Choke Size 3/4 In.  
 Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 60' gas. - 25' clean oil - 180' muddy oil

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 49 Weight 9.9 Maximum Temp. 115 °F  
 EXTRA EQUIPMENT: Dual Packers dual 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 3166 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 590 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 February 4, 1965

Test Ticket No. 8053

Recorder No. 1564 Capacity 3150 Location 3780 Ft.

Clock No. 6866 Elevation 2152 Kelly Bushings Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2061</u> P.S.I.	Opened Tool	<u>3:18A</u> M	
B First Initial Flow Pressure	<u>34</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>838</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>48</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>102</u> P.S.I.			
G Final Closed-in Pressure	<u>307</u> P.S.I.			
H Final Hydrostatic Mud	<u>2040</u> P.S.I.			

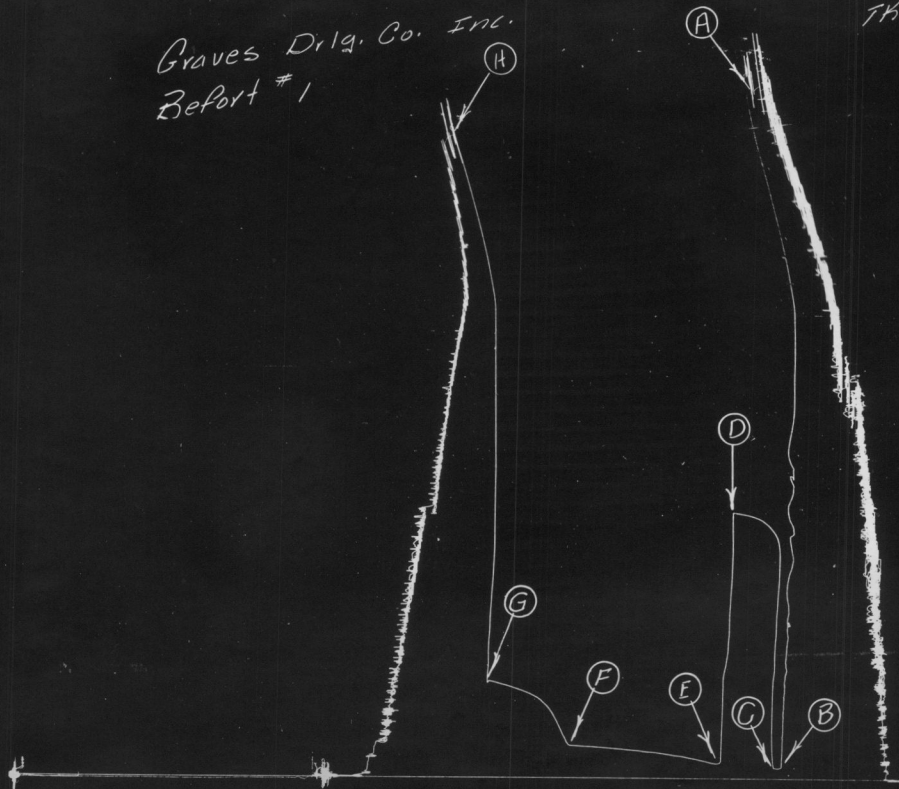
**PRESSURE BREAKDOWN**

<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>0</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>16</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>34</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>102</u>
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>428</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>134</u>
P 3		<u>6</u>	<u>762</u>	<u>10</u>	<u>58</u>	<u>6</u>	<u>170</u>
P 4		<u>9</u>	<u>790</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>194</u>
P 5		<u>12</u>	<u>804</u>	<u>20</u>	<u>68</u>	<u>12</u>	<u>219</u>
P 6		<u>15</u>	<u>815</u>	<u>25</u>	<u>72</u>	<u>15</u>	<u>237</u>
P 7		<u>18</u>	<u>822</u>	<u>30</u>	<u>77</u>	<u>18</u>	<u>248</u>
P 8		<u>21</u>	<u>829</u>	<u>35</u>	<u>80</u>	<u>21</u>	<u>259</u>
P 9		<u>24</u>	<u>832</u>	<u>40</u>	<u>83</u>	<u>24</u>	<u>267</u>
P10		<u>27</u>	<u>835</u>	<u>45</u>	<u>86</u>	<u>27</u>	<u>273</u>
P11		<u>30</u>	<u>838</u>	<u>50</u>	<u>89</u>	<u>30</u>	<u>281</u>
P12				<u>55</u>	<u>91</u>	<u>33</u>	<u>286</u>
P13				<u>60</u>	<u>94</u>	<u>36</u>	<u>290</u>
P14				<u>65</u>	<u>96</u>	<u>39</u>	<u>295</u>
P15				<u>70</u>	<u>97</u>	<u>42</u>	<u>300</u>
P16				<u>75</u>	<u>99</u>	<u>45</u>	<u>305</u>
P17				<u>80</u>	<u>100</u>	<u>48</u>	<u>307</u>
P18				<u>85</u>	<u>101</u>		
P19				<u>90</u>	<u>102</u>		
P20							

Graves Drilg. Co. Inc.  
Report # 1

Test # 4  
TKT # 8053







Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Graves Drilling Company, Inc.

Lease & Well No. Befort #1

Elevation 2152 Kelly Bushings; Formation - Arb.

Ticket Number 8054

Date Feb. 4, 1965 Sec. 23 Twp. 14s Range 19w County Ellis State Kansas

Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 5 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3785' to 3791' Total Depth 3791'

Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_

Packer Depth 3785 Ft. Size 6 3/4 Packer Depth 3780 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 3773 Ft. Clock No. 6866

Depth 3788 Ft. Clock No. 127

Top Make Amerada Cap. 3150 No. 1564 Inside  Outside \_\_\_\_\_

Bottom Make Westernn Cap. 4000 No. 17 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 4:28 P M

Tool Open I.F.P. From 4:31 P M to 4:37 M Hr. 6 Min. From (B) 31 P.S.I. To (C) 31 P.S.I.

Tool Closed I.C.I.P. From 4:37 M. to 5:07 M. Hr. 30 Min. (D) 604 P.S.I.

Tool Open F.F.P. From 5:07P M. to 6:37P M. Hr. 90 Min. From (E) 41 P.S.I. To (F) 73 P.S.I.

Tool Closed F.C.I.P. From 6:37P M. to 7:22P M. Hr. 45 Min. (G) 269 P.S.I.

Initial Hydrostatic Pressure (A) 2069 P.S.I. Final Hydrostatic Pressure (H) 2049 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_

INFORMATION \_\_\_\_\_ M. \_\_\_\_\_

\_\_\_\_\_ M. \_\_\_\_\_

\_\_\_\_\_ M. \_\_\_\_\_

BLOW Weak blow throughout test. Bottom Choke Size 3/4 In.

Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 75 clean gassy oil. 60' heavily oil cut thin mud.

\_\_\_\_\_ Mud

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 49 Weight 9.6 Maximum Temp. 115 °F

EXTRA EQUIPMENT: Dual Packers dual 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 3170 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 590 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 February 4, 1965

Test Ticket No. 8054

Recorder No. 1564 Capacity 3150 Location 3773 Ft.

Clock No. 6866 Elevation 2152 Ke-ly Bushings Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2069</u> P.S.I.	Opened Tool	<u>4:28P</u>	<u>M</u>
B First Initial Flow Pressure	<u>31</u> P.S.I.	First Flow Pressure	<u>6</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>604</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>41</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>73</u> P.S.I.			
G Final Closed-in Pressure	<u>269</u> P.S.I.			
H Final Hydrostatic Mud	<u>2049</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.

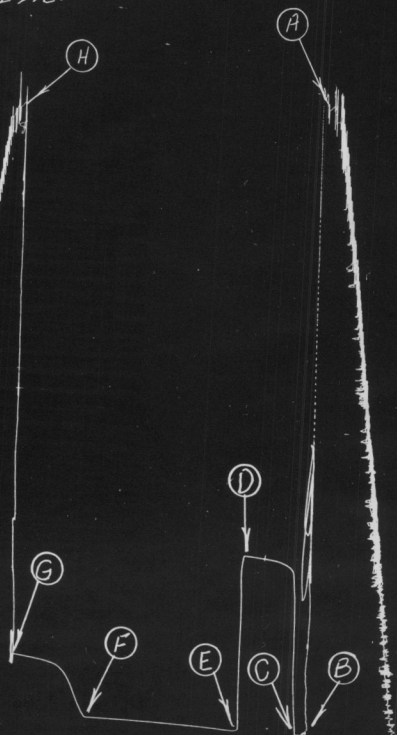
**Second Flow Pressure**  
Breakdown: 18 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 15 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>31</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>73</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>529</u>	<u>5</u>	<u>42</u>	<u>3</u>	<u>102</u>
P 3		<u>6</u>	<u>574</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>138</u>
P 4		<u>9</u>	<u>582</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>178</u>
P 5		<u>12</u>	<u>588</u>	<u>20</u>	<u>50</u>	<u>12</u>	<u>209</u>
P 6		<u>15</u>	<u>592</u>	<u>25</u>	<u>53</u>	<u>15</u>	<u>228</u>
P 7		<u>18</u>	<u>596</u>	<u>30</u>	<u>55</u>	<u>18</u>	<u>239</u>
P 8		<u>21</u>	<u>598</u>	<u>35</u>	<u>58</u>	<u>21</u>	<u>247</u>
P 9		<u>24</u>	<u>600</u>	<u>40</u>	<u>60</u>	<u>24</u>	<u>251</u>
P10		<u>27</u>	<u>602</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>255</u>
P11		<u>30</u>	<u>604</u>	<u>50</u>	<u>64</u>	<u>30</u>	<u>258</u>
P12				<u>55</u>	<u>65</u>	<u>33</u>	<u>261</u>
P13				<u>60</u>	<u>66</u>	<u>36</u>	<u>262</u>
P14				<u>65</u>	<u>67</u>	<u>39</u>	<u>264</u>
P15				<u>70</u>	<u>69</u>	<u>42</u>	<u>266</u>
P16				<u>75</u>	<u>71</u>	<u>45</u>	<u>269</u>
P17				<u>80</u>	<u>72</u>		
P18				<u>85</u>	<u>73</u>		
P19				<u>90</u>	<u>73</u>		
P20							

Graves Drilg. Co. Inc.  
Belort #1

TEST #5  
TKT # 8054





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

Company Graves Drilling Company, Inc. Lease & Well No. Befort #1  
 Elevation 2152 Kelly Bushings: Formation - Arb. Ticket Number 8055  
 Date Feb. 5, 1965 Sec. 23 Twp. 14s Range 19W County Ellis State Kansas  
 Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 6 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3790' to 3796' Total Depth 3796'  
 Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No \_\_\_\_\_  
 Packer Depth 3790 Ft. Size 6 3/4 Packer Depth 3785 Ft. Size 6 3/4  
 Straddle \_\_\_\_\_ Yes  No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
 Tool Size 5 1/2 OD Packer Depth \_\_\_\_\_ Ft Size \_\_\_\_\_  
 Tool Jt. Size 4 1/2 FH Anchor Length 6 Ft. Size 5 1/2 OD

RECORDERS Depth 3778 Ft. Clock No. 6866 Depth 3793 Ft. Clock No. 127  
 Top Make Amerada Cap. 3150 No. 1564 ~~Inside~~ Outside Bottom Make Western Cap. 4000 No. 17 ~~Inside~~ Outside  
 Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Outside  
 Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside

Time Set Packer 4:23 A M  
 Tool Open I.F.P. From 4:26 A M to 4:33 M Hr. 7 Min. From (B) 24 P.S.I. To (C) 25 P.S.I.  
 Tool Closed I.C.I.P. From 4:33 A M. to 5:03 A M. Hr. 30 Min. (D) 500 P.S.I.  
 Tool Open F.F.P. From 5:03 A M. to 6:33 A M. Hr. 90 Min. From (E) 34 P.S.I. To (F) 53 P.S.I.  
 Tool Closed F.C.I.P. From 6:33 A M. to 7:18 A M. Hr. 45 Min. (G) 306 P.S.I.  
 Initial Hydrostatic Pressure (A) 2049 P.S.I. Final Hydrostatic Pressure (H) 2032 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 BLOW Weak blow-throughout test. Bottom Choke Size 3/4 in.  
 Did Well Flow \_\_\_\_\_ Yes  No \_\_\_\_\_ Recovery Total Ft. 30' gassy oil - 60' muddy oil (slightly thin)

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type starch Viscosity 49 Weight 9.6 Maximum Temp. 109 °F  
 EXTRA EQUIPMENT: Dual Packers dual Safety Joint no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
 Type Circ. Sub. plug Did Tool Plug? no Where? \_\_\_\_\_ Did Packer Hold? yes  
 Length Drill Pipe 3175 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 580 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 February 5, 1965 Test Ticket No. 8055  
 Recorder No. 1564 Capacity 3150 Location 3778 Ft.  
 Clock No. 6866 Elevation 2152 Kelly Bushings Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2049</u> P.S.I.	Opened Tool	<u>4:23 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>24</u> P.S.I.	First Flow Pressure	<u>7</u> Mins.	<u>7</u> Mins.
C First Final Flow Pressure	<u>25</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>500</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>84</u> Mins.
E Second Initial Flow Pressure	<u>34</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>53</u> P.S.I.			
G Final Closed-in Pressure	<u>306</u> P.S.I.			
H Final Hydrostatic Mud	<u>2032</u> P.S.I.			

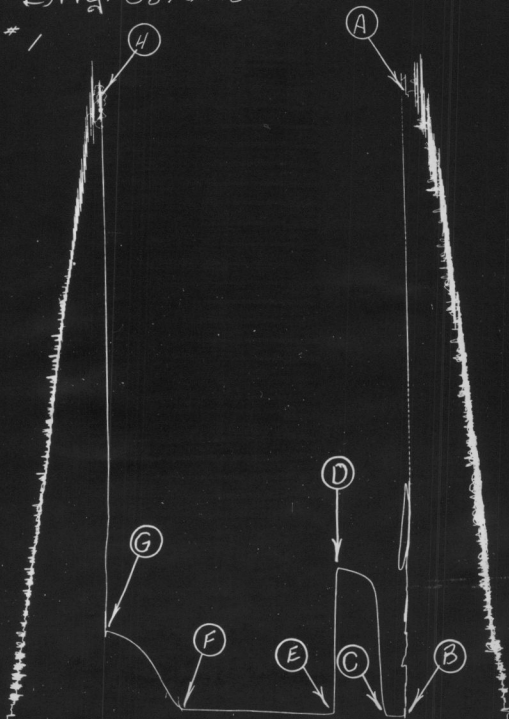
**PRESSURE BREAKDOWN**

<b>First Flow Press.</b> Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>2</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>17</u> Inc. of <u>5</u> mins. and a final inc. of <u>4</u> Min.	<b>Final Shut-In</b> Breakdown: <u>19</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>24</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>53</u>
P 2 <u>5</u>	<u>24</u>	<u>3</u>	<u>102</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>71</u>
P 3 <u>7</u>	<u>25</u>	<u>6</u>	<u>336</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>96</u>
P 4		<u>9</u>	<u>437</u>	<u>15</u>	<u>36</u>	<u>9</u>	<u>127</u>
P 5		<u>12</u>	<u>465</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>156</u>
P 6		<u>15</u>	<u>476</u>	<u>25</u>	<u>38</u>	<u>15</u>	<u>184</u>
P 7		<u>18</u>	<u>484</u>	<u>30</u>	<u>40</u>	<u>18</u>	<u>209</u>
P 8		<u>21</u>	<u>489</u>	<u>35</u>	<u>41</u>	<u>21</u>	<u>230</u>
P 9		<u>24</u>	<u>493</u>	<u>40</u>	<u>42</u>	<u>24</u>	<u>251</u>
P10		<u>27</u>	<u>496</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>266</u>
P11		<u>30</u>	<u>500</u>	<u>50</u>	<u>45</u>	<u>30</u>	<u>275</u>
P12				<u>55</u>	<u>47</u>	<u>33</u>	<u>284</u>
P13				<u>60</u>	<u>48</u>	<u>36</u>	<u>292</u>
P14				<u>65</u>	<u>49</u>	<u>39</u>	<u>298</u>
P15				<u>70</u>	<u>50</u>	<u>42</u>	<u>303</u>
P16				<u>75</u>	<u>51</u>	<u>45</u>	<u>306</u>
P17				<u>80</u>	<u>51</u>		
P18				<u>85</u>	<u>52</u>		
P19				<u>84</u>	<u>53</u>		
P20							

Graves Drlg. Co. Inc.  
Befort # 1

Test # 6  
TKT # 8055





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

Company Graves Drilling Company, Inc. Lease & Well No. Befort #1  
 Elevation 2152 Kelly Bushings; Formation- Arb. Ticket Number 8056  
 Date Feb. 5, 1965 Sec. 23 Twp. 14s Range 19W County Ellis State Kansas  
 Test Approved by George A. McCaleb Western Representative W. M. Nething

Formation Test No. 7 O.K.  Misrun  Interval Tested From 3795' to 3801' Total Depth 3801'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged Yes  No  Conv.  B.T.  Damaged Yes  No   
 Packer Depth 3795 Ft. Size 6 3/4 Packer Depth 3790 Ft. Size 6 3/4  
 Straddle  Yes  No  Conv.  B.T.  Damaged Yes  No   
 Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 6 Ft. Size 5 1/2 OD

RECORDERS Depth 3783 Ft. Clock No. 6866 Depth 3798 Ft. Clock No. 127  
 Top Make Amerada Cap. 3150 No. 1564 Inside Outside Bottom Make Western Cap. 4000 No. 17 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 3:03 P M  
 Tool Open I.F.P. From 3:06P M to 3:16 M Hr. 10 Min. From (B) 34 P.S.I. To (C) 34 P.S.I.  
 Tool Closed I.C.I.P. From 3:16 M. to 3:46 M. Hr. 30 Min. (D) 537 P.S.I.  
 Tool Open F.F.P. From 3:46P M. to 5:16 M. Hr. 90 Min. From (E) 38 P.S.I. To (F) 51 P.S.I.  
 Tool Closed F.C.I.P. From 5:16P M. to 6:01 M. Hr. 45 Min. (G) 411 P.S.I.  
 Initial Hydrostatic Pressure (A) 2053 P.S.I. Final Hydrostatic Pressure (H) 2028 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. Time Description of Flow  
 INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_  
 \_\_\_\_\_ M. \_\_\_\_\_

BLOW Very weak blow throughout test. Bottom Choke Size 3/4 in.  
 Did Well Flow  Yes  No Recovery Total Ft. 30' muddy oil - 60' slightly oily mud

Reversed Out  Yes  No Mud Type starch Viscosity 42 Weight 9.8 Maximum Temp. 110 °F  
 EXTRA EQUIPMENT: Dual Packers dual 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 3180 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 590 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 February 5, 1965

Test Ticket No. 8056

Recorder No. 1564

Capacity 3150

Location 3783 Ft.

Clock No. 6866

Elevation 2152 Kelly Bushings

Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2053</u> P.S.I.	Opened Tool	<u>3:03P</u>	<u>M</u>
B First Initial Flow Pressure	<u>34</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>537</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>411</u> P.S.I.			
H Final Hydrostatic Mud	<u>2028</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>2</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>34</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>51</u>	
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>128</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>75</u>	
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>295</u>	<u>10</u>	<u>39</u>	<u>6</u>	<u>103</u>	
P 4		<u>9</u>	<u>414</u>	<u>15</u>	<u>39</u>	<u>9</u>	<u>134</u>	
P 5		<u>12</u>	<u>479</u>	<u>20</u>	<u>40</u>	<u>12</u>	<u>173</u>	
P 6		<u>15</u>	<u>503</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>222</u>	
P 7		<u>18</u>	<u>517</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>262</u>	
P 8		<u>21</u>	<u>524</u>	<u>35</u>	<u>42</u>	<u>21</u>	<u>301</u>	
P 9		<u>24</u>	<u>529</u>	<u>40</u>	<u>43</u>	<u>24</u>	<u>331</u>	
P10		<u>27</u>	<u>532</u>	<u>45</u>	<u>44</u>	<u>27</u>	<u>559</u>	
P11		<u>30</u>	<u>537</u>	<u>50</u>	<u>45</u>	<u>30</u>	<u>375</u>	
P12				<u>55</u>	<u>46</u>	<u>33</u>	<u>389</u>	
P13				<u>60</u>	<u>47</u>	<u>36</u>	<u>397</u>	
P14				<u>65</u>	<u>47</u>	<u>39</u>	<u>406</u>	
P15				<u>70</u>	<u>48</u>	<u>42</u>	<u>411</u>	
P16				<u>75</u>	<u>49</u>			
P17				<u>80</u>	<u>50</u>			
P18				<u>85</u>	<u>51</u>			
P19				<u>90</u>	<u>51</u>			
P20								



Graves Drilg. Co. Inc.  
Beport #1

Test # 7  
TKT # 8056

