



WESTERN TESTING CO., Inc.  
P. O. Box 1599  
WICHITA, KANSAS  
67201

DATE 9/19/78

Graves Etal  
910 Union Center  
Wichita, Kansas 67202

CHARGE TO

Well Report No.  
Unit No.  
District

578

FOR CUSTOMER'S USE ONLY

Register No.

Voucher No.

Terms Approved

Price Approved

Calculations Checked

Adjustments

Accounting Distribution

Audited

Final Approval

Your Order No.

Owner

Contractor

Well No.

Farm

County

Sec.

Twp.

Range

#1

Hudson

Barber

6

31S

10W

One drill stem test from 2714' to 2780' (Test 1) \$ 415.00

POSTED

Discount \$ 4.15	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 578
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 578

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 1793 GR Formation INDIAN CAVE Eff. Pay Ft.

District Peatt Date 9-19-78 Customer Order No.

COMPANY NAME Gravel-Stat

ADDRESS 910 Union Centre Wichita, Kansas

LEASE AND WELL NO. Hudson #1 COUNTY Barber STATE KANSAS Sec. 6 Twp. 31S Rge. 10W

Mail Invoice To Co. Name Same Address No. Copies Requested

Mail Charts To Co. Name Same Address No. Copies Requested

Formation Test No. 1 Interval Tested from 2714 ft. to 2780 ft. Total Depth 2780 ft.

Packer Depth 2709 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2714 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2718 ft. Recorder Number 2609 Cap. 4150

Bottom Recorder Depth (Outside) 2721 ft. Recorder Number 2606 Cap. 4150

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drill Collar Length 89 I. D. 2 1/4 in.

Mud Type Benmy Viscosity 35 Weight Pipe Length 434 I. D. 2 1/2 in.

Weight 9.4 Water Loss 6.8 cc. Drill Pipe Length 2200 I. D. 3.0 in.

Chlorides 27000 P.P.M. Test Tool Size 5500 in. Tool Joint Size 45 FN in.

Jars: Make NO Serial Number - Anchor Length 66 ft. Size 5300 - 1 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: WEAK blow on both initial & final flow periods

Recovered 135 ft. of water cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:50 AM. Time Started Off Bottom 3:35 PM. Maximum Temperature 105°F

Initial Hydrostatic Pressure (A) 1349 P.S.I.

Initial Flow Period Minutes 15 (B) 42 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period Minutes 45 (D) 1004 P.S.I.

Final Flow Period Minutes 60 (E) 42 P.S.I. to (F) 53 P.S.I.

Final Closed In Period Minutes 45 (G) 899 P.S.I.

Final Hydrostatic Pressure (H) 1317 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Harold Stencamp Signature of Customer or his authorized representative

Western Representative Red Witt Thank you

FIELD INVOICE

Open Hole Test \$ 415.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Extra Charts \$

TOTAL \$ 415.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-19-78 Test Ticket No. 578  
 Recorder No. 2604 Capacity 4150 Location 2718 Ft.  
 Clock No. - Elevation 1793 Ground Level Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1361</u>	P.S.I.	<u>12:50P</u>	M
B. First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>15</u>	Mins. <u>15</u> Mins.
C. First Final Flow Pressure	<u>30</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D. Initial Closed-in Pressure	<u>1017</u>	P.S.I.	<u>60</u>	Mins. <u>55</u> Mins.
E. Second Initial Flow Pressure	<u>62</u>	P.S.I.	<u>45</u>	Mins. <u>48</u> Mins.
F. Second Final Flow Pressure	<u>70</u>	P.S.I.		
G. Final Closed-in Pressure	<u>920</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1316</u>	P.S.I.		

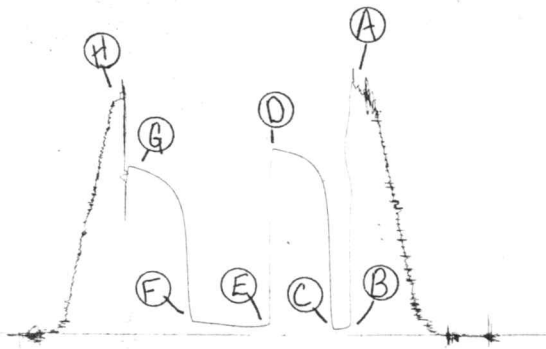
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>16</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>30</u>	<u>0</u>	<u>62</u>	<u>0</u>	<u>55</u>
P 2	<u>5</u>	<u>3</u>	<u>192</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>149</u>
P 3	<u>10</u>	<u>6</u>	<u>656</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>533</u>
P 4	<u>15</u>	<u>9</u>	<u>799</u>	<u>15</u>	<u>43</u>	<u>9</u>	<u>694</u>
P 5	<u>20</u>	<u>12</u>	<u>865</u>	<u>20</u>	<u>43</u>	<u>12</u>	<u>749</u>
P 6	<u>25</u>	<u>15</u>	<u>906</u>	<u>25</u>	<u>49</u>	<u>15</u>	<u>784</u>
P 7	<u>30</u>	<u>18</u>	<u>932</u>	<u>30</u>	<u>53</u>	<u>18</u>	<u>814</u>
P 8	<u>35</u>	<u>21</u>	<u>952</u>	<u>35</u>	<u>58</u>	<u>21</u>	<u>835</u>
P 9	<u>40</u>	<u>24</u>	<u>966</u>	<u>40</u>	<u>62</u>	<u>24</u>	<u>850</u>
P10	<u>45</u>	<u>27</u>	<u>978</u>	<u>45</u>	<u>66</u>	<u>27</u>	<u>865</u>
P11	<u>50</u>	<u>30</u>	<u>987</u>	<u>50</u>	<u>67</u>	<u>30</u>	<u>877</u>
P12	<u>55</u>	<u>33</u>	<u>994</u>	<u>55</u>	<u>70</u>	<u>33</u>	<u>887</u>
P13	<u>60</u>	<u>36</u>	<u>1001</u>	<u>60</u>		<u>36</u>	<u>896</u>
P14		<u>39</u>	<u>1006</u>	<u>65</u>		<u>39</u>	<u>902</u>
P15		<u>42</u>	<u>1010</u>	<u>70</u>		<u>42</u>	<u>910</u>
P16		<u>45</u>	<u>1017</u>	<u>75</u>		<u>45</u>	<u>916</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>920</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

2604

TK# 578

I.





P. O. BOX 1599 PHONE (316) 838-0601  
 WICHITA, KANSAS 67201

Company Graves Etal Lease & Well No. Hudson #1  
 Elevation 1793 Ground Level Formation Indian Cave Effective Pay ----- Ft. Ticket No. 578  
 Date 9/19/78 Sec. 6 Twp 31S Range 10W County Barber State Kansas  
 Test Approved by Harold Steincamp Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 2714' ft. to 2780' ft. Total Depth 2780' ft.  
 Packer Depth 2709 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2714 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2718 ft. Recorder Number 2604 Cap. 4150  
 Bottom Recorder Depth (Outside) 2721 ft. Recorder Number 2606 Cap. 4150  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Drill Collar Length 89 I. D. 2 1/4 in.  
 Mud Type premix Viscosity 35 Weight Pipe Length 434 I. D. 2 1/2 in.  
 Weight 9.4 Water Loss 68 cc. Drill Pipe Length 2200 I. D. 3.8 in.  
 Chlorides 27,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.  
 Jars: Make No Serial Number - Anchor Length 66 ft. Size 5 1/2 OD-WP in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in.

Blow: Weak blow on both initial and final flow periods.

Recovered 135 ft. of water cut mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 12:50 ~~AM~~ P.M. Time Started Off Bottom 3:35 ~~AM~~ P.M. Maximum Temperature 105  
 Initial Hydrostatic Pressure ..... (A) 1361 P.S.I.  
 Initial Flow Period ..... Minutes 15 (B) 53 P.S.I. to (C) 30 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1017 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 62 P.S.I. to (F) 70 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 920 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1316 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9/19/78

Test Ticket No. 578

Recorder No. 2604 Capacity 4150

Location 2718 Ft.

Clock No. - Elevation 1793 Ground Level

Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1361</u> P.S.I.	Open Tool	<u>12:50P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>53</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C. First Final Flow Pressure	<u>30</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>1017</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E. Second Initial Flow Pressure	<u>62</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F. Second Final Flow Pressure	<u>70</u> P.S.I.			
G. Final Closed-in Pressure	<u>920</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1316</u> P.S.I.			

### PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>16</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>53</u>	<u>0</u> <u>30</u>	<u>0</u> <u>62</u>	<u>0</u> <u>55</u>			
P 2	<u>5</u> <u>36</u>	<u>3</u> <u>192</u>	<u>5</u> <u>47</u>	<u>3</u> <u>149</u>			
P 3	<u>10</u> <u>30</u>	<u>6</u> <u>656</u>	<u>10</u> <u>43</u>	<u>6</u> <u>533</u>			
P 4	<u>15</u> <u>30</u>	<u>9</u> <u>799</u>	<u>15</u> <u>43</u>	<u>9</u> <u>694</u>			
P 5	<u>    </u> <u>    </u>	<u>12</u> <u>865</u>	<u>20</u> <u>43</u>	<u>12</u> <u>749</u>			
P 6	<u>    </u> <u>    </u>	<u>15</u> <u>906</u>	<u>25</u> <u>49</u>	<u>15</u> <u>784</u>			
P 7	<u>    </u> <u>    </u>	<u>18</u> <u>932</u>	<u>30</u> <u>53</u>	<u>18</u> <u>814</u>			
P 8	<u>    </u> <u>    </u>	<u>21</u> <u>952</u>	<u>35</u> <u>58</u>	<u>21</u> <u>835</u>			
P 9	<u>    </u> <u>    </u>	<u>24</u> <u>966</u>	<u>40</u> <u>62</u>	<u>24</u> <u>850</u>			
P10	<u>    </u> <u>    </u>	<u>27</u> <u>978</u>	<u>45</u> <u>66</u>	<u>27</u> <u>865</u>			
P11	<u>    </u> <u>    </u>	<u>30</u> <u>987</u>	<u>50</u> <u>67</u>	<u>30</u> <u>877</u>			
P12	<u>    </u> <u>    </u>	<u>33</u> <u>994</u>	<u>55</u> <u>70</u>	<u>33</u> <u>887</u>			
P13	<u>    </u> <u>    </u>	<u>36</u> <u>1001</u>	<u>    </u> <u>    </u>	<u>36</u> <u>896</u>			
P14	<u>    </u> <u>    </u>	<u>39</u> <u>1006</u>	<u>    </u> <u>    </u>	<u>39</u> <u>902</u>			
P15	<u>    </u> <u>    </u>	<u>42</u> <u>1010</u>	<u>    </u> <u>    </u>	<u>42</u> <u>910</u>			
P16	<u>    </u> <u>    </u>	<u>45</u> <u>1017</u>	<u>    </u> <u>    </u>	<u>45</u> <u>916</u>			
P17	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>48</u> <u>920</u>			
P18	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>			
P19	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>			
P20	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>	<u>    </u> <u>    </u>			



WESTERN TESTING CO., Inc.  
P. O. Box 1599  
WICHITA, KANSAS  
67201

DATE 9/23/78

Graves Etal  
910 Union Center  
Wichita, Kansas 67202

CHARGE TO

Well Report No.  
Unit No.  
District

541

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

Your Order No.	Owner	Contractor	Audited	Final Approval
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Well No.	Farm	County	Sec.	Twp.	Range
#1	Hudson	Barber	6	31S	10W

One drill stem test from 4487' to 4540' (Test 2) \$ 440.00

POSTED

Discount \$ 4.40	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 541
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET NO: 541

P. O. BOX 1599 WICHITA, KANSAS 67201  
PHONE (316) 838-0601

Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

District Pratt Date 9/23/78 Customer Order No. —

COMPANY NAME Graves

ADDRESS 910 Union Center Wichita, Ks 67202

LEASE AND WELL NO. Hudson #1 COUNTY Barber STATE Ks Sec. 6 Twp. 31 Rge. 10

Mail Invoice To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 5

Mail Charts To Same Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 5

Formation Test No. 2 Interval Tested from 4487 ft. to 4540 ft. Total Depth 4540 ft.

Packer Depth 4487 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 4487 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4530 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4533 ft. Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Graves Drlg #1 Drill Collar Length 89 I. D. 2 1/4 in.

Mud Type Premix Viscosity 48 Weight Pipe Length 243 I. D. 2 1/4 in.

Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 4134 I. D. 3.8 in.

Chlorides 5200 P.P.M. Test Tool Size 5 1/2 in. Tool Joint Size 4 1/2 FH in.

Jars: Make — Serial Number — Anchor Length 53 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in.

Blow: Very Weak throughout first flow period

Bubbles died in 22 min on second flow period

Recovered 62 ft. of Drlg Mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 2:00 A.M. / P.M. Time Started Off Bottom 4:00 A.M. / P.M. Maximum Temperature 124 1/2

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2289 P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes 15 (B) 84 P.S.I. to (C) 84 P.S.I.

Initial Closed In Period \_\_\_\_\_ Minutes 45 (D) 105 P.S.I.

Final Flow Period \_\_\_\_\_ Minutes 30 (E) 95 P.S.I. to (F) 95 P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes 30 (G) 105 P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) 2267 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]  
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 440.00  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage \$ \_\_\_\_\_  
Extra Charts \$ \_\_\_\_\_

TOTAL \$ 440.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-23-78 Test Ticket No. 541  
 Recorder No. 2607 Capacity 4150 Location 4530 Ft.  
 Clock No. \_\_\_\_\_ Elevation — Well Temperature 124 °F

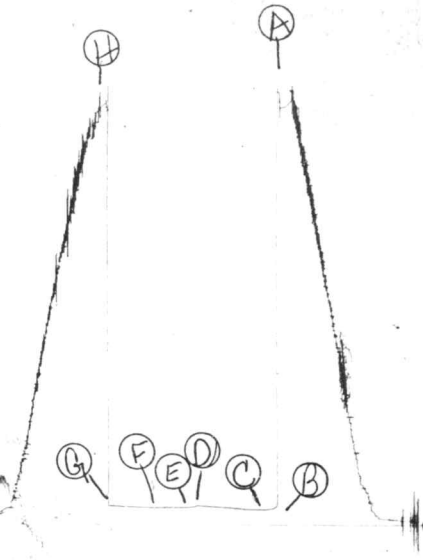
Point	Pressure	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2293</u> P.S.I.	<u>2:00 A</u> M	
B. First Initial Flow Pressure	<u>101</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C. First Final Flow Pressure	<u>84</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D. Initial Closed-in Pressure	<u>107</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>99</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>94</u> P.S.I.		
G. Final Closed-in Pressure	<u>103</u> P.S.I.		
H. Final Hydrostatic Mud	<u>2280</u> P.S.I.		

PRESSURE BREAKDOWN

<p><b>First Flow Pressure</b>                  Breakdown: <u>3</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Initial Shut-In</b>                  Breakdown: <u>14</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Second Flow Pressure</b>                  Breakdown: <u>6</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Final Shut-In</b>                  Breakdown: <u>10</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>101</u>	0	<u>84</u>	0	<u>99</u>	0	<u>94</u>
P 2 5	<u>84</u>	3	<u>85</u>	5	<u>95</u>	3	<u>94</u>
P 3 10	<u>84</u>	6	<u>87</u>	10	<u>94</u>	6	<u>94</u>
P 4 15	<u>84</u>	9	<u>89</u>	15	<u>94</u>	9	<u>95</u>
P 5 20	<del>84</del>	12	<u>91</u>	20	<u>94</u>	12	<u>96</u>
P 6 25	<del>84</del>	15	<u>92</u>	25	<u>94</u>	15	<u>99</u>
P 7 30		18	<u>93</u>	30	<u>94</u>	18	<u>100</u>
P 8 35		21	<u>95</u>	35		21	<u>101</u>
P 9 40		24	<u>97</u>	40		24	<u>102</u>
P10 45		27	<u>98</u>	45		27	<u>103</u>
P11 50		30	<u>99</u>	50		30	<u>103</u>
P12 55		33	<u>101</u>	55		33	
P13 60		36	<u>103</u>	60		36	
P14		39	<u>106</u>	65		39	
P15		42	<u>107</u>	70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TR# 541  
I



541



P. O. BOX 1599 PHONE (316) 838-0601  
 WICHITA, KANSAS 67201

Company Graves Etal Lease & Well No. Hudson #1  
 Elevation -- Formation -- Effective Pay -- Ft. Ticket No. 541  
 Date 9/23/78 Sec. 6 Twp. 31S Range 10W County Barber State Kansas  
 Test Approved by H. Steincamp Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4487' ft. to 4540' ft. Total Depth 4540' ft.  
 Packer Depth 4482' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4487' ft. Size 6 3/4 in. Packer Depth - ft. Size = in.  
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4530 ft. Recorder Number 2607 Cap. 4150  
 Bottom Recorder Depth (Outside) 4533 ft. Recorder Number 3351 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling #1 Drill Collar Length 89 I. D. 2 1/4 in.  
 Mud Type premix Viscosity 48 Weight Pipe Length 243 I. D. 2.7 in.  
 Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 4134 I. D. 3.8 in.  
 Chlorides 5,200 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.  
 Jars: Make - Serial Number - Anchor Length 53 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in.

Blow: Very weak throughout first flow period. Bubbles died in 22 minutes on second flow period

Recovered 62 ft. of drilling mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 2:00 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 4:00 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 124  
 Initial Hydrostatic Pressure ..... (A) 2293 P.S.I.  
 Initial Flow Period ..... Minutes 15 (B) 101 P.S.I. to (C) 84 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 107 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 99 P.S.I. to (F) 94 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 103 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2280 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9/23/78

Test Ticket No. 541

Recorder No. 2607

Capacity 4150 Location 4530

Clock No. -- Elevation --

Well Temperature 124

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2293 P.S.I.	Open Tool	2:00A	M
B First Initial Flow Pressure	101 P.S.I.	First Flow Pressure	15 Mins.	15 Min
C First Final Flow Pressure	84 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Min
D Initial Closed-in Pressure	107 P.S.I.	Second Flow Pressure	30 Mins.	30 Min
E Second Initial Flow Pressure	99 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Min
F Second Final Flow Pressure	94 P.S.I.			
G Final Closed-in Pressure	103 P.S.I.			
H Final Hydrostatic Mud	2280 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure  
Breakdown: 3 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

Initial Shut-In  
Breakdown: 14 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Second Flow Pressure  
Breakdown: 6 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>101</u>	<u>0</u>	<u>84</u>	<u>0</u>	<u>99</u>	<u>0</u>	<u>94</u>
P 2 <u>5</u>	<u>84</u>	<u>3</u>	<u>85</u>	<u>5</u>	<u>95</u>	<u>3</u>	<u>94</u>
P 3 <u>10</u>	<u>84</u>	<u>6</u>	<u>87</u>	<u>10</u>	<u>94</u>	<u>6</u>	<u>94</u>
P 4 <u>15</u>	<u>84</u>	<u>9</u>	<u>89</u>	<u>15</u>	<u>94</u>	<u>9</u>	<u>95</u>
P 5 _____	_____	<u>12</u>	<u>91</u>	<u>20</u>	<u>94</u>	<u>12</u>	<u>96</u>
P 6 _____	_____	<u>15</u>	<u>92</u>	<u>25</u>	<u>94</u>	<u>15</u>	<u>99</u>
P 7 _____	_____	<u>18</u>	<u>93</u>	<u>30</u>	<u>94</u>	<u>18</u>	<u>100</u>
P 8 _____	_____	<u>21</u>	<u>95</u>	_____	_____	<u>21</u>	<u>101</u>
P 9 _____	_____	<u>24</u>	<u>97</u>	_____	_____	<u>24</u>	<u>102</u>
P10 _____	_____	<u>27</u>	<u>98</u>	_____	_____	<u>27</u>	<u>103</u>
P11 _____	_____	<u>30</u>	<u>99</u>	_____	_____	<u>30</u>	<u>103</u>
P12 _____	_____	<u>33</u>	<u>101</u>	_____	_____	_____	_____
P13 _____	_____	<u>36</u>	<u>103</u>	_____	_____	_____	_____
P14 _____	_____	<u>39</u>	<u>106</u>	_____	_____	_____	_____
P15 _____	_____	<u>42</u>	<u>107</u>	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____