



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 7406

Kelly Bashing

Kansas City

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 1694 KB Formation KC Eff. Pay Ft.

District GT Bend Date 11/18/80 Customer Order No.

COMPANY NAME Petroleum Energy Inc.

ADDRESS Suite 710 One Twenty Building Wichita, KS. 67202

LEASE AND WELL NO. May 'A' #1 COUNTY Rice STATE KS. Sec. 10 Twp. 20 Rge. 9W

Mail Invoice To SAME Co. Name SAME Address Address No. Copies Requested 5

Mail Charts To SAME Address Address No. Copies Requested 58

Formation Test No. 1 Interval Tested from 2932 ft. to 2975 ft. Total Depth 2975 ft.

Packer Depth 2927 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2932 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2935 ft. Recorder Number 4234 Cap. 4500

Bottom Recorder Depth (Outside) 2938 ft. Recorder Number 4334 Cap. 1300

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Allen Right Drill Collar Length I. D. in.

Mud Type Starch-Salt Clay Viscosity 47 Weight Pipe Length I. D. in.

Weight 9.8 Water Loss 9.6 cc. Drill Pipe Length 2911 I. D. 3.8 in.

Chlorides 58000 P.P.M. Test Tool Length 21 ft. Tool Size 1/2 in.

Jars: Make NO Serial Number Anchor Length 43 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 1 1/2 X in.

Initial Flow Period

Blow: IF - Weak Blow building to good blow

Final Flow Period Good blow throughout

Recovered 90 ft. of MUD WITH OIL SPECKS ON TOP!

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Choked 56 100

Time On Location 10:15 AM

Time Pick Up Tool 1:30 AM

Time Off Location 7:20 AM

Time Set Packer(s) 2:48 AM

Time Started Off Bottom 5:48 AM

Maximum Temperature 100°

Initial Hydrostatic Pressure (A) 1565 P.S.I.

Initial Flow Period Minutes 45 (B) 22 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period Minutes 45 (D) 887 P.S.I.

Final Flow Period Minutes 45 (E) 34 P.S.I. to (F) 34 P.S.I.

Final Closed In Period Minutes 45 (G) 424 P.S.I.

Final Hydrostatic Pressure (H) 1531 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 Signature of Customer or his authorized representative

Western Representative Dan Delaney

(Owing Mack tool)

FIELD INVOICE

Open Hole Test \$550.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

Mileage 23 miles 17.25

Fluid Sampler \$

Extra Charts \$

Insurance \$

TOTAL \$567.25

WESTERN TESTING CO., INC.

Pressure Data

Date 11-18 Test Ticket No. 7406  
 Recorder No. 6234 Capacity 4500 Location 2935 Ft.  
 Clock No.                      Elevation 1694 RB Well Temperature 100 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1561</u>	P.S.I.		<u>2:48 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>34</u>	P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>25</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>887</u>	P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>54</u>	P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.			
G Final Closed-in Pressure	<u>376*</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1528</u>	P.S.I.			

\* Pressures questionable due to O-ring leak in tool.

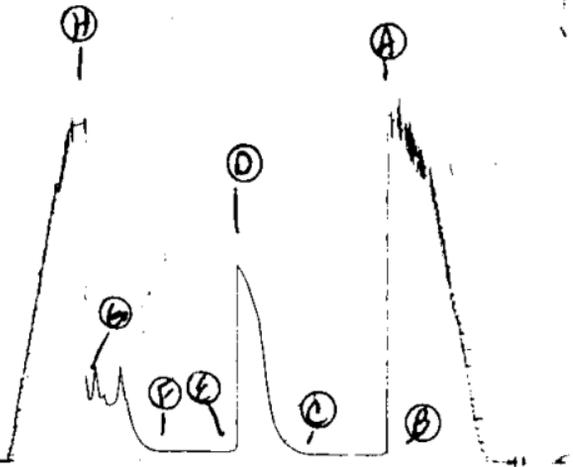
PRESSURE BREAKDOWN

First Flow Pressure Breakdown:		Initial Shut-In Breakdown:		Second Flow Pressure Breakdown:		Final Shut-In Breakdown:	
9 Inc.		14 Inc.		9 Inc.		14 Inc.	
of 5 mins. and a final inc. of 0 Min.		of 3 mins. and a final inc. of 0 Min.		of 5 mins. and a final inc. of 0 Min.		of 3 mins. and a final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>34</u>	0	<u>25</u>	0	<u>54</u>	0	<u>41</u>
P 2 5	<u>23</u>	3	<u>30</u>	5	<u>38</u>	3	<u>44</u>
P 3 10	<u>                    </u>	6	<u>38</u>	10	<u>37</u>	6	<u>57</u>
P 4 15	<u>                    </u>	9	<u>49</u>	15	<u>38</u>	9	<u>71</u>
P 5 20	<u>                    </u>	12	<u>68</u>	20	<u>39</u>	12	<u>101</u>
P 6 25	<u>                    </u>	15	<u>89</u>	25	<u>40</u>	15	<u>151</u>
P 7 30	<u>23</u>	18	<u>127</u>	30	<u>40</u>	18	<u>241</u>
P 8 35	<u>24</u>	21	<u>195</u>	35	<u>40</u>	21	<u>339*</u>
P 9 40	<u>24</u>	24	<u>321</u>	40	<u>41</u>	24	<u>297*</u>
P 10 45	<u>25</u>	27	<u>514</u>	45	<u>41</u>	27	<u>255*</u>
P 11 50	<u>                    </u>	30	<u>655</u>	50	<u>                    </u>	30	<u>255*</u>
P 12 55	<u>                    </u>	33	<u>732</u>	55	<u>                    </u>	33	<u>284*</u>
P 13 60	<u>                    </u>	36	<u>802</u>	60	<u>                    </u>	36	<u>360*</u>
P 14	<u>                    </u>	39	<u>854</u>	65	<u>                    </u>	39	<u>289*</u>
P 15	<u>                    </u>	42	<u>887</u>	70	<u>                    </u>	42	<u>316*</u>
P 16	<u>                    </u>	45	<u>                    </u>	75	<u>                    </u>	45	<u>                    </u>
P 17	<u>                    </u>	48	<u>                    </u>	80	<u>                    </u>	48	<u>                    </u>
P 18	<u>                    </u>	51	<u>                    </u>	85	<u>                    </u>	51	<u>                    </u>
P 19	<u>                    </u>	54	<u>                    </u>	90	<u>                    </u>	54	<u>                    </u>
P 20	<u>                    </u>	57	<u>                    </u>		<u>                    </u>	57	<u>                    </u>
	<u>                    </u>	60	<u>                    </u>		<u>                    </u>	60	<u>                    </u>

PH # 7406

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6239



Company Petroleum Energy, Inc. Lease & Well No. May "A" #1  
 Elevation 1694 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 7406  
 Date 11-18-80 Sec. 10 Twp. 20S Range 9W County Rice State Kansas  
 Test Approved by Jim Musgrove Western Representative Dan Delaney

Formation Test No. 1 Interval Tested from 2932 ft. to 2975 ft. Total Depth 2975 ft.  
 Packer Depth 2927 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2932 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2935 ft. Recorder Number 6234 Cap. 4500  
 Bottom Recorder Depth (Outside) 2938 ft. Recorder Number 4339 Cap. 4300  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type Starch-Salt Clay Viscosity 47 Weight Pipe Length - I. D. - in.  
 Weight 9.8 Water Loss 9.6 cc. Drill Pipe Length 2911 I. D. 3.8 in.  
 Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 43 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: Initial flow period weak blow building to good blow. Final flow period good blow through out.

Recovered 90 ft. of mud with oil specks on top Chlorides 56,000 PPM  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 2:48 ~~A.M.~~ P.M. Time Started Off Bottom 5:48 ~~A.M.~~ P.M. Maximum Temperature 100  
 Initial Hydrostatic Pressure     (A) 1561 P.S.I.  
 Initial Flow Period     Minutes 45 (B) 34 P.S.I. to (C) 25 P.S.I.  
 Initial Closed In Period     Minutes 42 (D) 887 P.S.I.  
 Final Flow Period     Minutes 45 (E) 54 P.S.I. to (F) 41 P.S.I.  
 Final Closed In Period     Minutes 42 (G) 376\* P.S.I.  
 Final Hydrostatic Pressure     (H) 1528 P.S.I.

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

Date 11-18-80 Test Ticket No. 7406  
 Recorder No. 6234 Capacity 4500 Location 2935 Ft.  
 Clock No. - Elevation 1694 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1561</u>	P.S.I.	<u>2:48P</u>	<u>M</u>
B First Initial Flow Pressure	<u>34</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>25</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>887</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>54</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.	*Pressures questionable due to O-ring leak in tool.	
G Final Closed-in Pressure	<u>376*</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1528</u>	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</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>25</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>41</u>
P 2	<u>5</u>	<u>3</u>	<u>30</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>44</u>
P 3	<u>10</u>	<u>6</u>	<u>38</u>	<u>10</u>	<u>37</u>	<u>6</u>	<u>57</u>
P 4	<u>15</u>	<u>9</u>	<u>49</u>	<u>15</u>	<u>38</u>	<u>9</u>	<u>71</u>
P 5	<u>20</u>	<u>12</u>	<u>68</u>	<u>20</u>	<u>39</u>	<u>12</u>	<u>101</u>
P 6	<u>25</u>	<u>15</u>	<u>89</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>151</u>
P 7	<u>30</u>	<u>18</u>	<u>127</u>	<u>30</u>	<u>40</u>	<u>18</u>	<u>241</u>
P 8	<u>35</u>	<u>21</u>	<u>195</u>	<u>35</u>	<u>40</u>	<u>21</u>	<u>339*</u>
P 9	<u>40</u>	<u>24</u>	<u>321</u>	<u>40</u>	<u>41</u>	<u>24</u>	<u>297*</u>
P10	<u>45</u>	<u>27</u>	<u>514</u>	<u>45</u>	<u>41</u>	<u>27</u>	<u>255*</u>
P11		<u>30</u>	<u>655</u>			<u>30</u>	<u>255*</u>
P12		<u>33</u>	<u>732</u>			<u>33</u>	<u>284*</u>
P13		<u>36</u>	<u>802</u>			<u>36</u>	<u>360*</u>
P14		<u>39</u>	<u>854</u>			<u>39</u>	<u>289*</u>
P15		<u>42</u>	<u>887</u>			<u>42</u>	<u>376*</u>
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 7407

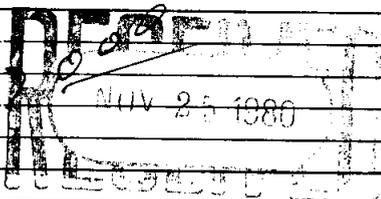
P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 1694 KB Formation Ar buckle Eff. Pay Ft.

District GT Bend Date 11/19/80 Customer Order No.
COMPANY NAME Petroleum Energy INC.
ADDRESS Suite 710 One Twenty Building Wichita, KS. 67202
LEASE AND WELL NO. May "A" #1 COUNTY Rice STATE KS. Sec. 10 Twp. 20 Rge. 9W
Mail Invoice To Same Co. Name No. Copies Requested 5
Mail Charts To Same Copy to Manager Address No. Copies Requested 58

Formation Test No. 2 Interval Tested from 3212 ft. to 3220 ft. Total Depth 3220 ft.
Packer Depth 3207 ft. Size 6 3/4 in.
Packer Depth 3212 ft. Size 6 3/4 in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 3195 ft. Recorder Number 6234 Cap. 4500
Bottom Recorder Depth (Outside) 3210 ft. Recorder Number 4339 Cap. 4300
Below Straddle Recorder Depth
Drilling Contractor Allen Rig #1 Drill Collar Length I. D.
Mud Type STARCH-SALT CLAY Viscosity 46 Weight Pipe Length I. D.
Weight 10 Water Loss 16 cc. Drill Pipe Length 3185 I. D. 3.18 in.
Chlorides 78000 P.P.M. Test Tool Length 27 ft. Tool Size 4 1/2 in.
Jars: Make NS Serial Number Anchor Length 8 ft. Size 5 1/2 in.
Did Well Flow? Reversed Out Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: TF - WEAK Blow building very slowly
Initial Flow Period WEAK Blow building to a fair blow
Recovered 25 ft. of slightly oil speckled mud
Recovered 30 ft. of oil cut mud
Recovered ft. of
Recovered ft. of Chlorides 7
Recovered ft. of
Remarks:



Time On Location 3:00 A.M. Time Pick Up Tool 5:45 A.M. Time Off Location 12:00 P.M.
Time Set Packer(s) 6:59 P.M. Time Started Off Bottom 9:59 A.M. Maximum Temperature 102
Initial Hydrostatic Pressure (A) 1803 P.S.I.
Initial Flow Period Minutes 45 (B) 11 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period Minutes 45 (D) 695 P.S.I.
Final Flow Period Minutes 45 (E) 22 P.S.I. to (F) 22 P.S.I.
Final Closed In Period Minutes 45 (G) 538 P.S.I.
Final Hydrostatic Pressure (H) 1746 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 Dan Delaney
Signature of Customer or his authorized representative
Western Representative Ray Schwager

FIELD INVOICE
Open Hole Test \$550
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage NC \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$550

WESTERN TESTING CO., INC.

Pressure Data

Date 11-19 Test Ticket No. 7407  
 Recorder No. 6234 Capacity 4500 Location 3195 Ft.  
 Clock No.      Elevation 1494 KB Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1751</u>	P.S.I.	<u>6:59 P</u>	
B First Initial Flow Pressure	<u>14</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>19</u>	P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>697</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>31</u>	P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>29</u>	P.S.I.		
G Final Closed-in Pressure	<u>533</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1479</u>	P.S.I.		

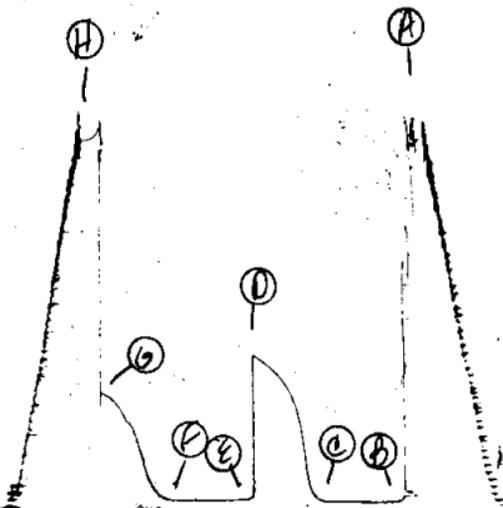
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</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>14</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>29</u>
P 2	<u>5</u>	<u>3</u>	<u>14</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>33</u>
P 3	<u>10</u>	<u>6</u>	<u>15</u>	<u>10</u>	<u>29</u>	<u>6</u>	<u>40</u>
P 4	<u>15</u>	<u>9</u>	<u>15</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>53</u>
P 5	<u>20</u>	<u>12</u>	<u>16</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>80</u>
P 6	<u>25</u>	<u>15</u>	<u>17</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>125</u>
P 7	<u>30</u>	<u>18</u>	<u>17</u>	<u>30</u>	<u>29</u>	<u>18</u>	<u>205</u>
P 8	<u>35</u>	<u>21</u>	<u>18</u>	<u>35</u>	<u>29</u>	<u>21</u>	<u>281</u>
P 9	<u>40</u>	<u>24</u>	<u>19</u>	<u>40</u>	<u>29</u>	<u>24</u>	<u>359</u>
P10	<u>45</u>	<u>27</u>	<u>19</u>	<u>45</u>	<u>29</u>	<u>27</u>	<u>395</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>		<u>30</u>	<u>436</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	<u>474</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	<u>499</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>517</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>533</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</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>	

TK# 7407

I

2234



Company Petroleum Energy, Inc. Lease & Well No. May "A" #1  
 Elevation 1694 Kelly Bushing Arbuckle Formation Effective Pay - Ft. Ticket No. 7407  
 Date 11/19/80 Sec. 10 Twp. 20S Range 9W County Rice State Kansas  
 Test Approved by Jim Musgrove Western Representative Dan Delaney-Ray Schwager

Formation Test No. 2 Interval Tested from 3212 ft. to 3220 ft. Total Depth 3220 ft.  
 Packer Depth 3207 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3212 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3195 ft. Recorder Number 6234 Cap. 4500  
 Bottom Recorder Depth (Outside) 3216 ft. Recorder Number 4339 Cap. 4300  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type starch-salt-clay Viscosity 46 Weight Pipe Length --- I. D. -- in.  
 Weight 10 Water Loss 16 cc. Drill Pipe Length 3185 I. D. 3.8 in.  
 Chlorides 78,000 P.P.M. Test Tool Length 27 ft. Tool Size 4 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 8 ft. Size 5 1/2 in.  
 Did Well Flow? = Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period, weak blow building very slowly. Final flow period weak blow building to a fair blow.

Recovered 25 ft. of slightly oil specked mud  
 Recovered 30 ft. of oil cut mud  
 Recovered        ft. of Chlorides 77,000 ppm  
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 6:59 A.M. P.M. Time Started Off Bottom 9:59 A.M. P.M. Maximum Temperature 102°  
 Initial Hydrostatic Pressure (A) 1751 P.S.I.  
 Initial Flow Period Minutes 45 (B) 14 P.S.I. to (C) 19 P.S.I.  
 Initial Closed In Period Minutes 42 (D) 697 P.S.I.  
 Final Flow Period Minutes 45 (E) 31 P.S.I. to (F) 29 P.S.I.  
 Final Closed In Period Minutes 42 (G) 533 P.S.I.  
 Final Hydrostatic Pressure (H) 1679 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/19/80 Recorder No. 6234 Capacity 4500 Test Ticket No. 7407  
 Clock No. -- Elevation 1694 Kelly Bushing Location 3195 Ft. Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1751</u> P.S.I.	Open Tool	<u>6:59P</u> M	
B First Initial Flow Pressure	<u>14</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>19</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>697</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>31</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>29</u> P.S.I.			
G Final Closed-in Pressure	<u>533</u> P.S.I.			
H Final Hydrostatic Mud	<u>1679</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure  
 Breakdown: 9 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: 9 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Final Shut-In  
 Breakdown: 14 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>14</u>	<u>0</u>	<u>19</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>29</u>
P 2	<u>14</u>	<u>3</u>	<u>28</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>33</u>
P 3	<u>15</u>	<u>6</u>	<u>39</u>	<u>10</u>	<u>29</u>	<u>6</u>	<u>40</u>
P 4	<u>15</u>	<u>9</u>	<u>86</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>53</u>
P 5	<u>16</u>	<u>12</u>	<u>296</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>80</u>
P 6	<u>17</u>	<u>15</u>	<u>376</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>125</u>
P 7	<u>17</u>	<u>18</u>	<u>466</u>	<u>30</u>	<u>29</u>	<u>18</u>	<u>205</u>
P 8	<u>18</u>	<u>21</u>	<u>524</u>	<u>35</u>	<u>29</u>	<u>21</u>	<u>281</u>
P 9	<u>19</u>	<u>24</u>	<u>563</u>	<u>40</u>	<u>29</u>	<u>24</u>	<u>359</u>
P10	<u>19</u>	<u>27</u>	<u>592</u>	<u>45</u>	<u>29</u>	<u>27</u>	<u>395</u>
P11		<u>30</u>	<u>619</u>			<u>30</u>	<u>436</u>
P12		<u>33</u>	<u>644</u>			<u>33</u>	<u>474</u>
P13		<u>6</u>	<u>660</u>			<u>36</u>	<u>499</u>
P14		<u>30</u>	<u>678</u>			<u>39</u>	<u>517</u>
P15		<u>42</u>	<u>697</u>			<u>42</u>	<u>533</u>
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 7408

OK

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 1694 KB Formation Arbuckle Eff. Pay — Ft.

District GT Bend Date 11/20/80 Customer Order No. —

COMPANY NAME Petroleum Energy Inc.

ADDRESS Suite 710 One Twenty Building Wichita, KS, 67207

LEASE AND WELL NO. MAY "A" #1 COUNTY Rice STATE KS. Sec. 10 Twp. 20 Rge. 9

Mail Invoice To Same Co. Name No. Copies Requested 5

Mail Charts To Same Co. Name Address Same as to Murgan No. Copies Requested 58

Formation Test No. 3 Interval Tested from 3212 ft. to 3223 ft. Total Depth 3223 ft.

Packer Depth 3207 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3212 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3214 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3217 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Rig #1 Drill Collar Length — I. D. — in.

Mud Type Starch-Salt Water viscosity 46 Weight Pipe Length — I. D. — in.

Weight 10 Water Loss 16 cc. Drill Pipe Length 3191 I. D. 3.8 in.

Chlorides 78000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make NP Serial Number — Anchor Length 11 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Initial Flow Period

Blow: IF - Weak Blow building to fair blow

Final Flow Period

Recovered 40 ft. of G.I.P. GAS IN MUD

Recovered 50 ft. of OIL CUT Gassy MUD (20% oil; 5% water; 75% mud)

Recovered 60 ft. of SLIGHTLY OIL CUT THIN MUD

Recovered — ft. of Chlorides 76,000 P.P.M.

Recovered — ft. of

Remarks:

Time On Location 3:00 AM Time Pick Up Tool 5:40 AM

Time Set Packer(s) 6:52 PM Time Started Off Bottom 9:52 PM

Initial Hydrostatic Pressure (A) 1791 P.S.I.

Initial Flow Period Minutes 45 (B) 22 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period Minutes 45 (D) 639 P.S.I.

Final Flow Period Minutes 45 (E) 45 P.S.I. to (F) 45 P.S.I.

Final Closed In Period Minutes 45 (G) 504 P.S.I.

Final Hydrostatic Pressure (H) 1746 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 [Signature] Signature of Customer or his authorized representative Western Representative [Signature]

7 Ring leak in tool Ray Schwager

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test, Misc., Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packers, Circ. Sub., Mileage, Fluid Sample, Extra Charts, Insurance, and TOTAL.

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

Date 11- Test Ticket No. 7408  
 Recorder No. 6234 Capacity 4500 Location 3214 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1694 KB Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1776</u>	P.S.I.	<u>6:52A<sub>M</sub></u>	
B First Initial Flow Pressure	<u>46</u>	P.S.I.	<u>45</u> Mins	<u>45</u> Mins.
C First Final Flow Pressure	<u>32</u>	P.S.I.	<u>45</u> Mins	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>625</u>	P.S.I.	<u>45</u> Mins	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>57</u>	P.S.I.	<u>45</u> Mins	<u>45</u> Mins.
F Second Final Flow Pressure	<u>45</u>	P.S.I.		
G Final Closed-in Pressure	<u>495*</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1735</u>	P.S.I.		

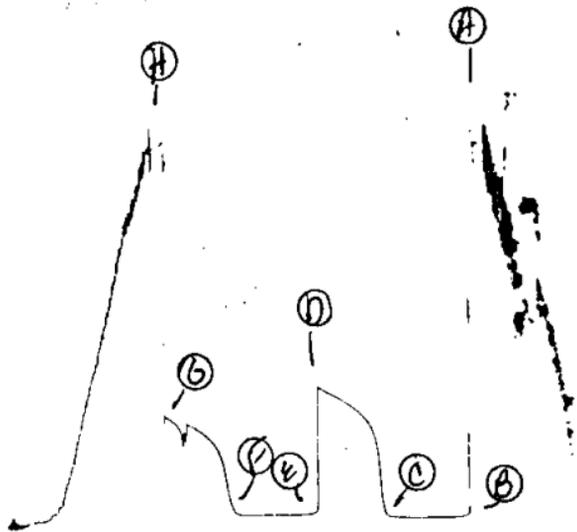
\* Pressures questionable due to O-ring leak in tool.

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	<u>9</u> Inc.	Breakdown:	<u>14</u> Inc.	Breakdown:	<u>9</u> Inc.	Breakdown:	<u>15</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>32</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>45</u>
P 2	<u>5</u>	<u>3</u>	<u>41</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>53</u>
P 3	<u>10</u>	<u>6</u>	<u>147</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>89</u>
P 4	<u>15</u>	<u>9</u>	<u>369</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>200</u>
P 5	<u>20</u>	<u>12</u>	<u>444</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>307</u>
P 6	<u>25</u>	<u>15</u>	<u>481</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>360</u>
P 7	<u>30</u>	<u>18</u>	<u>505</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>388</u>
P 8	<u>35</u>	<u>21</u>	<u>527</u>	<u>35</u>	<u>45</u>	<u>21</u>	<u>409</u>
P 9	<u>40</u>	<u>24</u>	<u>543</u>	<u>40</u>	<u>45</u>	<u>24</u>	<u>428</u>
P10	<u>45</u>	<u>27</u>	<u>556</u>	<u>45</u>	<u>45</u>	<u>27</u>	<u>445</u>
P11	<u>50</u>	<u>30</u>	<u>572</u>	<u>50</u>		<u>30</u>	<u>456</u>
P12	<u>55</u>	<u>33</u>	<u>584</u>	<u>55</u>		<u>33</u>	<u>424*</u>
P13	<u>60</u>	<u>36</u>	<u>598</u>	<u>60</u>		<u>36</u>	<u>440*</u>
P14		<u>39</u>	<u>609</u>	<u>65</u>		<u>39</u>	<u>470*</u>
P15		<u>42</u>	<u>625</u>	<u>70</u>		<u>42</u>	<u>486*</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>495*</u>
P17		<u>48</u>		<u>80</u>		<u>48</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>	

TKR #7408

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Company Petroleum Energy, Inc. Lease & Well No. May "A" #1  
 Elevation 1694 Kelly Bushing Arbuckle Formation Effective Pay. --- Ft. Ticket No. 7408  
 Date 11/20/80 Sec. 10 Twp. 20S Range 9W County Rice State Kansas  
 Test Approved by Jim Musgrove Western Representative Dan Delaney-Ray Schwager

Formation Test No. 3 Interval Tested from 3212 ft. to 3223 ft. Total Depth 3223 ft.  
 Packer Depth 3207 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3212 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3214 ft. Recorder Number 6234 Cap. 4500  
 Bottom Recorder Depth (Outside) 3217 ft. Recorder Number 4339 Cap. 4300  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type starch-salt-clay Viscosity 46 Weight Pipe Length - I. D. - in.  
 Weight 10 Water Loss 16 cc. Drill Pipe Length 3191 I. D. 3.8 in.  
 Chlorides 78,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 11 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period weak blow building to fair blow. Final flow period fair blow building slowly to a good blow.

Recovered 40 ft. of gas in pipe  
 Recovered 50 ft. of oil cut gassy mud (20% oil; 5% water; 75% mud)  
 Recovered 60 ft. of slightly oil cut thin mud  
 Recovered - ft. of Chlorides 76,000 ppm  
 Recovered - ft. of -

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

Time Set Packer(s) 6:52 ~~P.M.~~ A.M. Time Started Off Bottom 9:52 ~~P.M.~~ A.M. Maximum Temperature 102°  
 Initial Hydrostatic Pressure ..... (A) 1776 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 46 P.S.I. to (C) 32 P.S.I.  
 Initial Closed In Period ..... Minutes 42 (D) 625 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 57 P.S.I. to (F) 45 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 495 \* P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1735 P.S.I.

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

Date 11/20/80 Test Ticket No. 7408  
 Recorder No. 6234 Capacity 4500 Location 3214 Ft.  
 Clock No. - Elevation 1694 Kelly Bushing Well Temperature 102° °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1776</u>	P.S.I.	<u>6:45A</u>	<u>M</u>
B First Initial Flow Pressure	<u>46</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>32</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>625</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>57</u>	P.S.I.		<u>45</u> Mins.
F Second Final Flow Pressure	<u>45</u>	P.S.I.		
G Final Closed-in Pressure	<u>495 *</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1735</u>	P.S.I.		

\* Pressures questionable due to  
O-ring leak in tool.

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>45</u>
P 2 <u>5</u>	<u>32</u>	<u>3</u>	<u>41</u>	<u>3</u>	<u>53</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>147</u>	<u>6</u>	<u>89</u>
P 4 <u>15</u>	<u>30</u>	<u>9</u>	<u>369</u>	<u>9</u>	<u>200</u>
P 5 <u>20</u>	<u>28</u>	<u>12</u>	<u>444</u>	<u>12</u>	<u>307</u>
P 6 <u>25</u>	<u>28</u>	<u>15</u>	<u>481</u>	<u>15</u>	<u>360</u>
P 7 <u>30</u>	<u>29</u>	<u>18</u>	<u>505</u>	<u>18</u>	<u>388</u>
P 8 <u>35</u>	<u>30</u>	<u>21</u>	<u>527</u>	<u>21</u>	<u>409</u>
P 9 <u>40</u>	<u>31</u>	<u>24</u>	<u>543</u>	<u>24</u>	<u>428</u>
P10 <u>45</u>	<u>32</u>	<u>27</u>	<u>556</u>	<u>27</u>	<u>445</u>
P11		<u>30</u>	<u>572</u>	<u>30</u>	<u>456</u>
P12		<u>33</u>	<u>584</u>	<u>33</u>	<u>424*</u>
P13		<u>36</u>	<u>598</u>	<u>36</u>	<u>440*</u>
P14		<u>39</u>	<u>609</u>	<u>39</u>	<u>470*</u>
P15		<u>42</u>	<u>625</u>	<u>42</u>	<u>486*</u>
P16				<u>45</u>	<u>495*</u>
P17					
P18					
P19					
P20					



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO: 7409

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 1694 KB Formation Arbuckle Eff. Pay — Ft.

District GT. Bend Date 11/20/80 Customer Order No. —

COMPANY NAME Petroleum Energy Inc.

ADDRESS Suite 710 One Twenty Building Wichita, KS. 67202

LEASE AND WELL NO. MAY 'A' #1 COUNTY Rice STATE KS. Sec. 10 Twp. 20 Rge. 9W

Mail Invoice To SAME Co. Name SAME Address SAME

Mail Charts To SAME Address SAME No. Copies Requested 5

Formation Test No. 4 Interval Tested from 3212 ft. to 3231 ft. Total Depth 3231 ft.

Packer Depth 3207 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3212 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set. —

Top Recorder Depth (Inside) 3219 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3222 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Rig #1 Drill Collar Length — I. D. — in.

Mud Type STARCH-SALT clay viscosity 45 Weight Pipe Length — I. D. — in.

Weight 10.1 Water Loss 14.6 cc. Drill Pipe Length 3191 I. D. 3.8 in.

Chlorides 80000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make NO Serial Number — Anchor Length 19 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: FF - Weak Blow Building to a fair Blow.

FF - Good Blow Throughout

Recovered 60 ft. of GDS IN PIPE

Recovered 5 ft. of CLEAN OIL

Recovered 60 ft. of HEAVY OIL CUT MUD (TR. WATER)

Recovered 30 ft. of OIL CUT WATER

Recovered 30 ft. of MUDDY WATER

Remarks:

Time On Location 3:15 AM Time Pick Up Tool 6:05 AM Time Off Location 1:00 AM

Time Set Packer(s) 8:00 PM Time Started Off Bottom 11:00 PM Maximum Temperature 105°

Initial Hydrostatic Pressure (A) 1769 P.S.I.

Initial Flow Period Minutes 45 (B) 45 P.S.I. to (C) 57 P.S.I.

Initial Closed In Period Minutes 45 (D) 1000 P.S.I.

Final Flow Period Minutes 45 (E) 68 P.S.I. to (F) 80 P.S.I.

Final Closed In Period Minutes 45 (G) 954 P.S.I.

Final Hydrostatic Pressure (H) 1746 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 [Signature] Signature of Customer or his authorized representative

Western Representative [Signature] Dan Delaney

[Signature] Ray Schwager

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage NC, Fluid Sampler, Extra Charts, Insurance, and TOTAL. Amounts are mostly \$0, with Open Hole Test at \$550.00 and TOTAL at \$550.00.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-20 Test Ticket No. 7409  
 Recorder No. 6234 Capacity 4500 Location 3219 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1694 KB Well Temperature 105 °F

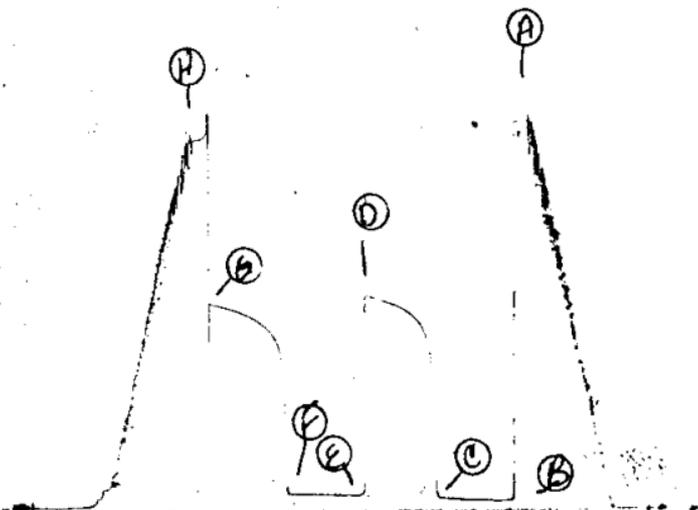
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1787</u> P.S.I.	<u>8:00 P</u> M	
B First Initial Flow Pressure	<u>54</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>61</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>995</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>83</u> P.S.I.		
G Final Closed-in Pressure	<u>955</u> P.S.I.		
H Final Hydrostatic Mud	<u>1708</u> P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	<u>54</u>	0	<u>61</u>	0	<u>82</u>	0	<u>83</u>
P 2	5	<u>46</u>	3	<u>222</u>	5	<u>73</u>	3	<u>694</u>
P 3	10	<u>47</u>	6	<u>748</u>	10	<u>76</u>	6	<u>783</u>
P 4	15	<u>48</u>	9	<u>824</u>	15	<u>77</u>	9	<u>820</u>
P 5	20	<u>49</u>	12	<u>873</u>	20	<u>78</u>	12	<u>848</u>
P 6	25	<u>50</u>	15	<u>898</u>	25	<u>79</u>	15	<u>866</u>
P 7	30	<u>51</u>	18	<u>918</u>	30	<u>80</u>	18	<u>884</u>
P 8	35	<del>52</del> <u>56</u>	21	<del>932</del> <u>932</u>	35	<u>81</u>	21	<u>898</u>
P 9	40	<u>60</u>	24	<u>944</u>	40	<u>82</u>	24	<u>908</u>
P10	45	<u>61</u>	27	<u>954</u>	45	<u>83</u>	27	<u>921</u>
P11	<del>50</del>		30	<u>962</u>	<del>50</del>		30	<u>926</u>
P12	<del>55</del>		33	<u>972</u>	<del>55</del>		33	<u>932</u>
P13	<del>60</del>		36	<u>977</u>	<del>60</del>		36	<u>940</u>
P14			39	<u>986</u>	<del>65</del>		39	<u>947</u>
P15			42	<u>995</u>	<del>70</del>		42	<u>951</u>
P16			<del>45</del>		<del>75</del>		45	<u>955</u>
P17			<del>48</del>		<del>80</del>		<del>48</del>	
P18			<del>51</del>		<del>85</del>		<del>51</del>	
P19			<del>54</del>		<del>90</del>		<del>54</del>	
P20			<del>57</del>				<del>57</del>	
			<del>60</del>				<del>60</del>	

TK# 7409

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L.R. 3/4

Company Petroleum Energy, Inc. Lease & Well No. May #1 "A"  
 Elevation 1694 Kelly Bushing Arbuckle Formation Effective Pay -- Ft. Ticket No. 7409  
 Date 11/20/80 Sec. 10 Twp 20S Range 9W County Rice State Kansas  
 Test Approved by Jim Musgrove Western Representative Don Delaney--Ray Schwager

Formation Test No. 4 Interval Tested from 3212 ft. to 3231 ft. Total Depth 3231 ft.  
 Packer Depth 3207 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3212 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3219 ft. Recorder Number 6234 Cap. 4500  
 Bottom Recorder Depth (Outside) 3222 ft. Recorder Number 4339 Cap. 4300  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type starch-salt-clay Viscosity 45 Weight Pipe Length - I. D. - in.  
 Weight 10.1 Water Loss 16.6 cc. Drill Pipe Length 3191 I. D. 3.8 in.  
 Chlorides 80,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/8 in.  
 Jars: Make No Serial Number - Anchor Length 19 ft. Size 5 1/8 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/8 in.

Blow: Initial flow period weak blow building to a fair blow. Final flow period good blow throughout.

Recovered 60 ft. of gas in pipe  
 Recovered 5 ft. of clean oil  
 Recovered 60 ft. of heavy oil cut mud (trace of water) Chlorides 77,000 ppm  
 Recovered 30 ft. of oil cut water  
 Recovered 30 ft. of muddy water

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

Time Set Packer(s) 8:00 A.M. Time Started Off Bottom 11:00 P.M. Maximum Temperature 105°  
 Initial Hydrostatic Pressure ..... (A) 1787 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 54 P.S.I. to (C) 61 P.S.I.  
 Initial Closed In Period ..... Minutes 42 (D) 995 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 82 P.S.I. to (F) 83 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 955 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1708 P.S.I.

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

Date 11/20/80

7409

Recorder No. 6234

Test Ticker No. 3219

Capacity 4500

Location 3219 Ft.

Clock No. --- Elevation 1694 Kelly Bushing

Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1787</u> P.S.I.	Open Tool	<u>8:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>61</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>995</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>83</u> P.S.I.			
G Final Closed-in Pressure	<u>955</u> P.S.I.			
H Final Hydrostatic Mud	<u>1708</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 9 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: 9 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>54</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>83</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>222</u>	<u>5</u>	<u>73</u>	<u>3</u>	<u>694</u>
P 3 <u>10</u>	<u>47</u>	<u>6</u>	<u>748</u>	<u>10</u>	<u>76</u>	<u>6</u>	<u>783</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>824</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>820</u>
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>873</u>	<u>20</u>	<u>78</u>	<u>12</u>	<u>848</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>898</u>	<u>25</u>	<u>79</u>	<u>15</u>	<u>866</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>918</u>	<u>30</u>	<u>80</u>	<u>18</u>	<u>884</u>
P 8 <u>35</u>	<u>56</u>	<u>21</u>	<u>932</u>	<u>35</u>	<u>81</u>	<u>21</u>	<u>898</u>
P 9 <u>40</u>	<u>60</u>	<u>24</u>	<u>944</u>	<u>40</u>	<u>82</u>	<u>24</u>	<u>908</u>
P10 <u>45</u>	<u>61</u>	<u>27</u>	<u>954</u>	<u>45</u>	<u>83</u>	<u>27</u>	<u>921</u>
P11 _____	_____	<u>30</u>	<u>963</u>	_____	_____	<u>30</u>	<u>926</u>
P12 _____	_____	<u>33</u>	<u>972</u>	_____	_____	<u>33</u>	<u>932</u>
P13 _____	_____	<u>36</u>	<u>977</u>	_____	_____	<u>36</u>	<u>940</u>
P14 _____	_____	<u>39</u>	<u>986</u>	_____	_____	<u>39</u>	<u>947</u>
P15 _____	_____	<u>42</u>	<u>995</u>	_____	_____	<u>42</u>	<u>951</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>955</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____