



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7378

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

Elevation 1934 KB Formation KC Eff. Pay

District Great Bend Date 9-8-80 Customer Order No.

COMPANY NAME Petroleum Emergency Inc.

ADDRESS SUITE 710 ONE TWENTY BLDG WICHITA KS 67202

LEASE AND WELL NO MURRAY #1 COUNTY BANTON STATE KS Sec. 1 Twp 17 S Rge 11 W

Mail Invoice To MURRAY SA ME No. Copies Requested 5

Co. Name J.C. Musgrave Address Box 1162 Great Bend, KS. 67530 No. Copies Requested 58

Mail Charts To One copy to J.C. Musgrave SA ME Address

Formation Test No. 1 Interval Tested from 3084 ft. to 3162 ft. Total Depth 3162 ft.

Packer Depth 3081 ft. Size 6 3/4 in. Packer Depth 3084 ft. Size 6 3/4 in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3119 ft. Recorder Number 6077 Cap. 4200

Bottom Recorder Depth (Outside) 3121 ft. Recorder Number 1051 Cap. 4250

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor DUKE RIG #1 Drill Collar Length I. D. in.

Mud Type STANCH Viscosity 40 Weight Pipe Length 631 I. D. 2.07 in.

Weight 9.8 Water Loss 6.4 cc. Drill Pipe Length 2434 I. D. 3.18 in.

Chlorides 62,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make Serial Number Anchor Length 76 ft. Size 5 1/2 WITH JT PIPE

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Steady Blow 1 inch in bucket for 30 min then slightly decreasing first 10 min. Weak blow increasing to 1/2 inch in bucket second 10 min.

Recovered 90 ft. of slightly gas cut mud with few oil spots Chlorides 62,000 P.P.M.

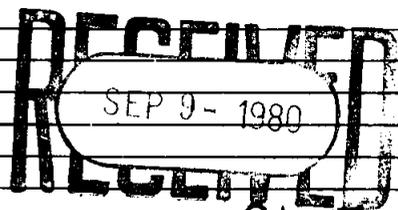
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



Time On Location 9:00 A.M. Time Pick Up Tool 9:45 A.M. Time Off Location 3:30 P.M.

Time Set Packer(s) 10:52 A.M. Time Started Off Bottom 11:55 P.M. Maximum Temperature 111

Initial Hydrostatic Pressure (A) 1260 P.S.I.

Initial Flow Period Minutes 45 (B) 98 P.S.I. to (C) 98 P.S.I.

Initial Closed In Period Minutes 45 (D) 465 P.S.I.

Final Flow Period Minutes 45 (E) 122 P.S.I. to (F) 110 P.S.I.

Final Closed In Period Minutes 45 (G) 404 P.S.I.

Final Hydrostatic Pressure (H) 1700 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 Jim Musgrave Signature of Customer or his authorized representative

Western Representative Roger Lisenby Thank you

FIELD INVOICE

Open Hole Test \$550.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

Mileage \$19.50

Fluid Sampler \$

Extra Charts \$

Insurance \$

TOTAL \$569.50

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

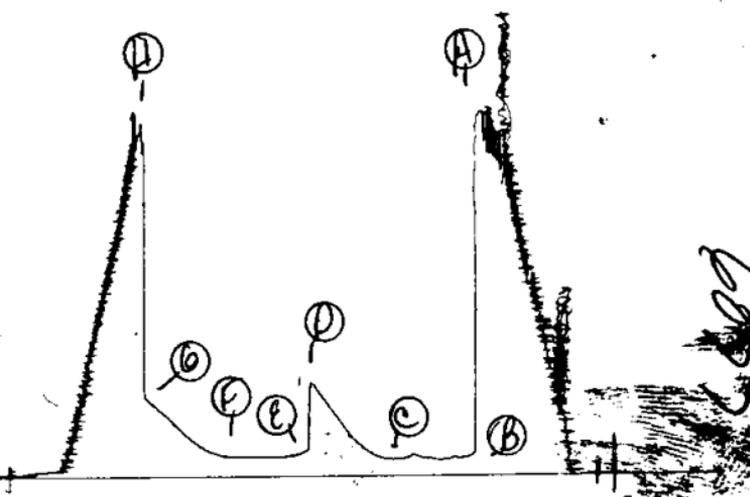
Date 9-8-80 Test Ticket No. 7379  
 Recorder No. 6077 Capacity 4700 Location 3162 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1934 KB Well Temperature 111 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1755</u>	P.S.I.	Open Tool	<u>10:52 A</u>	M
B First Initial Flow Pressure	<u>98</u>	P.S.I.	First Flow Pressure	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>85</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u>	Mins. <u>48</u> Mins.
D Initial Closed-in Pressure	<u>468</u>	P.S.I.	Second Flow Pressure	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>123</u>	P.S.I.	Final Closed-in Pressure	<u>45</u>	Mins. <u>48</u> Mins.
F Second Final Flow Pressure	<u>98</u>	P.S.I.			
G Final Closed-in Pressure	<u>390</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1671</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>16</u> Inc.		Breakdown: <u>9</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>98</u>	0	<u>85</u>	0	<u>123</u>	0	<u>98</u>
P 2	<u>93</u>	3	<u>85</u>	5	<u>115</u>	3	<u>103</u>
P 3	<u>93</u>	6	<u>93</u>	10	<u>103</u>	6	<u>110</u>
P 4	<u>85</u>	9	<u>103</u>	15	<u>98</u>	9	<u>118</u>
P 5	<u>80</u>	12	<u>115</u>	20	<u>98</u>	12	<u>128</u>
P 6	<u>90</u>	15	<u>130</u>	25	<u>↑</u>	15	<u>138</u>
P 7	<u>95</u>	18	<u>150</u>	30	<u>↑</u>	18	<u>155</u>
P 8	<u>108</u>	21	<u>173</u>	35	<u>↓</u>	21	<u>178</u>
P 9	<u>93</u>	24	<u>198</u>	40	<u>↓</u>	24	<u>200</u>
P 10	<u>85</u>	27	<u>230</u>	45	<u>98</u>	27	<u>220</u>
P 11		30	<u>265</u>	50		30	<u>253</u>
P 12		33	<u>303</u>	55		33	<u>275</u>
P 13		36	<u>340</u>	60		36	<u>298</u>
P 14		39	<u>375</u>	65		39	<u>320</u>
P 15		42	<u>410</u>	70		42	<u>343</u>
P 16		45	<u>448</u>	75		45	<u>368</u>
P 17		48	<u>468</u>	80		48	<u>390</u>
P 18		<u>51</u>		85		<u>51</u>	
P 19		<u>54</u>		90		<u>54</u>	
P 20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

SKP # 7378  
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**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 9-8-80 Test Ticket No. 7378  
 Recorder No. 6077 Capacity 4700 Location 3162 Ft.  
 Clock No. - Elevation 1934 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1755 P.S.I.	Open Tool	10:52A M	
B First Initial Flow Pressure	98 P.S.I.	First Flow Pressure	45 Mins	45 Mins.
C First Final Flow Pressure	85 P.S.I.	Initial Closed-in Pressure	45 Mins	48 Mins.
D Initial Closed-in Pressure	468 P.S.I.	Second Flow Pressure	45 Mins	45 Mins.
E Second Initial Flow Pressure	123 P.S.I.	Final Closed-in Pressure	45 Mins	48 Mins.
F Second Final Flow Pressure	98 P.S.I.			
G Final Closed-in Pressure	390 P.S.I.			
H Final Hydrostatic Mud	1671 P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>16</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>9</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 0	98	0	85	0	123	0	98
P 2 5	93	3	85	5	115	3	103
P 3 10	93	6	93	10	103	6	110
P 4 15	85	9	103	15	98	9	118
P 5 20	80	12	115	20	98	12	128
P 6 25	90	15	130	25	98	15	138
P 7 30	95	18	150	30	98	18	155
P 8 35	108	21	173	35	98	21	178
P 9 40	93	24	198	40	98	24	200
P10 45	85	27	230	45	98	27	220
P11		30	265			30	253
P12		33	303			33	275
P13		36	340			36	298
P14		39	375			39	320
P15		42	410			42	343
P16		45	448			45	368
P17		48	468			48	390
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 7379 OK

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

Elevation 1934 Address 1934 Kelly Bushing Formation Anbuakie Eff. Pay Ft.

District Petroleum Date 9-10-80 Customer Order No.

COMPANY NAME PETRO ENERGY, Inc

ADDRESS SUITE 710 ONE TWENTY Bldg, WICHITA KS 67202

LEASE AND WELL NO MURRAY #1 COUNTY BANTON STATE KS Sec 1 Twp 17S Rge 11W

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

Mail Charts To SAME Address SAME No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3396 ft. to 3408 ft. Total Depth 3408 ft.

Packer Depth 3391 ft. Size 6 3/4 in. Packer Depth 3394 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3400 ft. Recorder Number 6077 Cap. 4200

Bottom Recorder Depth (Outside) 3403 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor DUKE RIG #1 Drill Collar Length - I. D. - in.

Mud Type STARCH Viscosity 50 Weight Pipe Length 631 I. D. 2 1/2 in.

Weight 10.1 Water Loss 11.0 cc. Drill Pipe Length 2744 I. D. 3.8 in.

Chlorides 85,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 12 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. Tool Joint Size 4 1/2 FH in.

Blow: weak Blow DIED IN 24 MIN FIRST OPERATIONAL Initial Flow Period

NO BLOW SECOND OPERATIONAL FLUSH TOOL - NO BLOW

Recovered 10 ft. of mud with a few oil spots

Remarks: Chlorides 82,000 P.P.M.

9-7-80 11:30 P.M. Time Pick Up Tool 12:30 A.M. Time Off Location 5:30 A.M.

Time Set Packer(s) 11:35 A.M. Time Started Off Bottom 3:38 A.M. Maximum Temperature 118

Initial Hydrostatic Pressure (A) 1844 P.S.I.

Initial Flow Period Minutes 30 (B) 49 P.S.I. to (C) 36 P.S.I.

Initial Closed In Period Minutes 30 (D) 110 P.S.I.

Final Flow Period Minutes 30 (E) 61 P.S.I. to (F) 49 P.S.I.

Final Closed In Period Minutes 30 (G) 465 P.S.I.

Final Hydrostatic Pressure (H) 1800 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 Roger Lisenby

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Mileage (\$19.50), and TOTAL (\$569.50).

WESTERN TESTING CO., INC.

Pressure Data

Date 9-10-80

Test Ticket No. 7379

Recorder No. 6077

Capacity 4700

Location 3400 Ft.

Clock No.       

Elevation 1934 KB

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1846</u>	P.S.I.	<u>1:35 AM</u>	
B First Initial Flow Pressure	<u>75</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>45</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>118</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>78</u>	P.S.I.	<u>30</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>49</u>	P.S.I.		
G Final Closed-in Pressure	<u>478</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1807</u>	P.S.I.		

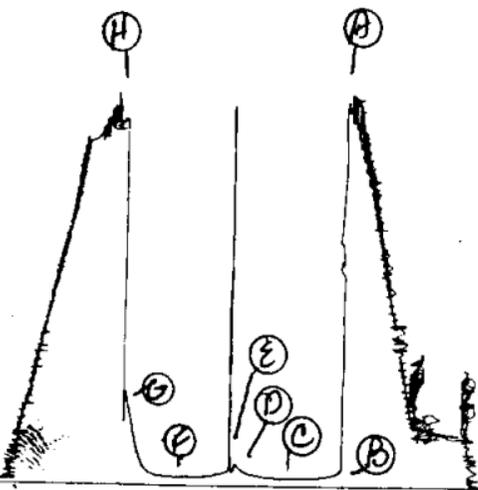
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>12</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 0	<u>75</u>	0	<u>45</u>	0	<u>78</u>	0	<u>49</u>
P 2 5	<u>60</u>	3	<u>44</u>	5	<u>70</u>	3	<u>49</u>
P 3 10	<u>52</u>	6	<u>45</u>	10	<u>58</u>	6	<u>49</u>
P 4 15	<u>47</u>	9	<u>47</u>	15	<u>50</u>	9	<u>52</u>
P 5 20	<u>45</u>	12	<u>47</u>	20	<u>49</u>	12	<u>54</u>
P 6 25	<u>45</u>	15	<u>53</u>	25	<u>49</u>	15	<u>58</u>
P 7 30	<u>45</u>	18	<u>58</u>	30	<u>49</u>	18	<u>68</u>
P 8 35		21	<u>63</u>	35		21	<u>88</u>
P 9 40		24	<u>67</u>	40		24	<u>123</u>
P10 45		27	<u>79</u>	45		27	<u>205</u>
P11 50		30	<u>118</u>	50		30	<u>313</u>
P12 55		33		55		33	<u>438</u>
P13 60		36		60		36	<u>478</u>
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

6077

JK # 7379

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Company Petroleum Energy, Inc. Lease & Well No. Murray #1  
 Elevation 1934 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 7379  
 Date 9-10-80 Sec. 1 Twp. 17S Range 11W County Barton State Kansas  
 Test Approved by Jim Musgrove Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 3396 ft. to 3408 ft. Total Depth 3408 ft.  
 Packer Depth 3391 ft. Size 6 3/4 in. Packer Depth 3396 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3400 ft. Recorder Number 6077 Cap 4700  
 Bottom Recorder Depth (Outside) 3403 ft. Recorder Number 1051 Cap 4250  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Duke Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type Starch Viscosity 50 Weight Pipe Length 631 I. D. 2.7 in.  
 Weight 10.1 Water Loss 11.0 cc. Drill Pipe Length 2744 I. D. 3.8 in.  
 Chlorides 85,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.  
 Jars: Make - Serial Number - Anchor Length 12 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow died in 24 minutes initial flow period. No blow final flow period. Flushed tool - no blow.

Recovered 10 ft. of Mud with a few oil spots  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks: chlorides 82,000 P.P.M.

Time Set Packer(s) 1:35 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 3:38 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 118  
 Initial Hydrostatic Pressure ..... (A) 1846 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 75 P.S.I. to (C) 45 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 118 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 78 P.S.I. to (F) 49 P.S.I.  
 Final Closed In Period ..... Minutes 36 (G) 478 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1807 P.S.I.

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

Date 9-10-80

Test Ticket No. 7379

Recorder No. 6077

Capacity 4700

Location 3400 Ft.

Clock No. -

Elevation 1934 Kelly Bushing

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1846</u> P.S.I.	Open Tool	<u>1:35A</u> M	
B First Initial Flow Pressure	<u>75</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>45</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>118</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>78</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>49</u> P.S.I.			
G Final Closed-in Pressure	<u>478</u> P.S.I.			
H Final Hydrostatic Mud	<u>1807</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</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>75</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>49</u>
P 2 <u>5</u>	<u>60</u>	<u>3</u>	<u>44</u>	<u>5</u>	<u>49</u>
P 3 <u>10</u>	<u>52</u>	<u>6</u>	<u>45</u>	<u>10</u>	<u>49</u>
P 4 <u>15</u>	<u>47</u>	<u>9</u>	<u>47</u>	<u>15</u>	<u>52</u>
P 5 <u>20</u>	<u>45</u>	<u>12</u>	<u>47</u>	<u>20</u>	<u>54</u>
P 6 <u>25</u>	<u>45</u>	<u>15</u>	<u>53</u>	<u>25</u>	<u>58</u>
P 7 <u>30</u>	<u>45</u>	<u>18</u>	<u>58</u>	<u>30</u>	<u>68</u>
P 8		<u>21</u>	<u>63</u>		<u>88</u>
P 9		<u>24</u>	<u>67</u>		<u>123</u>
P10		<u>27</u>	<u>79</u>		<u>205</u>
P11		<u>30</u>	<u>118</u>		<u>313</u>
P12					<u>438</u>
P13					<u>478</u>
P14					
P15					
P16					
P17					
P18					
P19					
P20					



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7380

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

Elevation 1934 K<sup>elly</sup> Formation <sup>Bushung</sup> ARBUCKLE Eff. Pay

District Great Bend Date 9-10-80 Customer Order No. \_\_\_\_\_

COMPANY NAME PETROLEUM ENERGY, Inc

ADDRESS SUITE 710 ONE TWENTY BLDG WICHITA KS 67202

LEASE AND WELL NO. MUMMAY #1 COUNTY BARTON STATE KS Sec. 1 Twp 17S Rge 11W

Mail Invoice To SAME No. Copies Requested 5

Co. Name Address Mail Charts To SAME Copy to Musgrove No. Copies Requested 5

Address

Formation Test No. 3 Interval Tested from 3406 ft. to 3416 ft. Total Depth 3416 ft.

Packer Depth 3401 ft. Size 6 3/4 in. Packer Depth 3406 ft. Size 6 1/4 in.

Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3409 ft. Recorder Number 6077 Cap. 4200

Bottom Recorder Depth (Outside) 3412 ft. Recorder Number 1051 Cap. 4250

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor DUKE RIG #1 Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Mud Type STARCH Viscosity 50 Weight Pipe Length 631 I. D. 2.7 in.

Weight 10.3 Water Loss 12.2 cc. Drill Pipe Length 2754 I. D. 3.8 in.

Chlorides 59000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 10 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. Tool Joint Size 4 1/2 in.

Flow Period: WEAK BLOW INCREASING SLOWLY FROM ONE INCH TO 3 INCHES IN BUCKET

FIRST OPENING - WEAK BLOW INCREASING TO AN INCH IN BUCKET

Recovered 60 ft. of GAS IN PIPE

Recovered 100 ft. of Heavy oil cut mud (Show of free oil) Tr water (70% oil) 20% mud

Recovered 60 ft. of oil cut mud (Show of free oil) Tr water (45% oil) 20% waste

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ 39% mud

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

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

Remarks: Chlorides 49,000 P.P.M.

Time On Location 10:45 A.M. Time Pick Up Tool 11:15 A.M. Time Off Location 5:30 P.M.

Time Set Packer(s) 12:14 P.M. Time Started Off Bottom 3:21 P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 1760 P.S.I.

Initial Flow Period Minutes 45 (B) 73 P.S.I. to (C) 73 P.S.I.

Initial Closed In Period Minutes 50 (D) 1009 P.S.I.

Final Flow Period Minutes 45 (E) 110 P.S.I. to (F) 98 P.S.I.

Final Closed In Period Minutes 45 (G) 961 P.S.I.

Final Hydrostatic Pressure (H) 1844 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

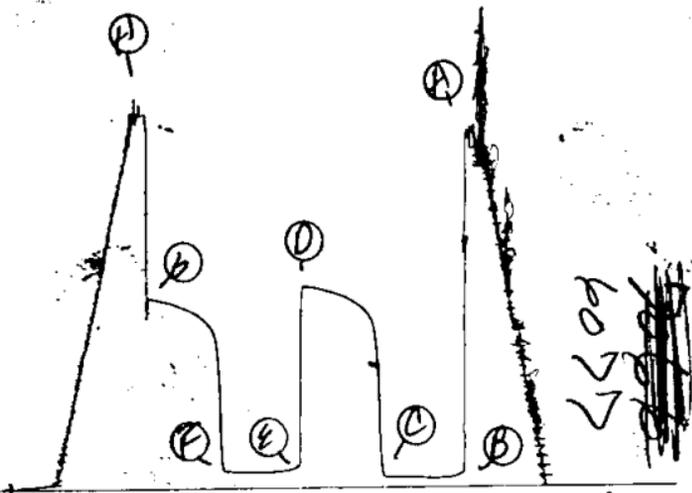
Western Representative [Signature] Roger Lisenby

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Mileage (\$19.50), Insurance (\$569.50), TOTAL (\$589.00).

JH # 7380

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WESTERN TESTING CO., INC.

Pressure Data

Date 9-10-80 Test Ticket No. 7380  
 Recorder No. 6077 Capacity 4700 Location 3409 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1934 KB Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1832</u>	P.S.I.	<u>12:14 PM</u>	
B First Initial Flow Pressure	<u>68</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>58</u>	P.S.I.	<u>50</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1002</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>113</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>93</u>	P.S.I.		
G Final Closed-in Pressure	<u>952</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1832</u>	P.S.I.		

PRESSURE BREAKDOWN

<b>First Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>16</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>15</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>68</u>	0	<u>58</u>	0	<u>113</u>	0	<u>93</u>
P 2	<u>58</u>	3	<u>373</u>	5	<u>98</u>	3	<u>514</u>
P 3	<u>50</u>	6	<u>742</u>	10	<u>92</u>	6	<u>710</u>
P 4	<u>50</u>	9	<u>838</u>	15	<u>88</u>	9	<u>795</u>
P 5	<u>50</u>	12	<u>874</u>	20	<u>88</u>	12	<u>826</u>
P 6	<u>55</u>	15	<u>901</u>	25	<u>88</u>	15	<u>850</u>
P 7	<u>55</u>	18	<u>918</u>	30	<u>88</u>	18	<u>867</u>
P 8	<u>55</u>	21	<u>932</u>	35	<u>92</u>	21	<u>882</u>
P 9	<u>55</u>	24	<u>949</u>	40	<u>92</u>	24	<u>894</u>
P 10	<u>58</u>	27	<u>959</u>	45	<u>93</u>	27	<u>906</u>
P 11		30	<u>966</u>	50		30	<u>915</u>
P 12		33	<u>976</u>	55		33	<u>923</u>
P 13		36	<u>981</u>	60		36	<u>930</u>
P 14		39	<u>988</u>	65		39	<u>937</u>
P 15		42	<u>993</u>	70		42	<u>942</u>
P 16		45	<u>998</u>	75		45	<u>952</u>
P 17		48	<u>1002</u>	80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

Company Petroleum Energy, Inc. Lease & Well No. Murray #1  
 Elevation 1934 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 7380  
 Date 9-10-80 Sec. 1 Twp. 17S Range 11W County Barton State Kansas  
 Test Approved by Jim Musgrove Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 3406 ft. to 3416 ft. Total Depth 3416 ft.  
 Packer Depth 3401 ft. Size 6 3/4 in. Packer Depth 3406 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3409 ft. Recorder Number 6077 Cap. 4700  
 Bottom Recorder Depth (Outside) 3412 ft. Recorder Number 1051 Cap. 4250  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Duke Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type Starch Viscosity 51 Weight Pipe Length 631 I. D. 2.7 in.  
 Weight 10.3 Water Loss 12.2 cc. Drill Pipe Length 2754 I. D. 3.8 in.  
 Chlorides 59,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.  
 Jars: Make - Serial Number - Anchor Length 10 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Initial flow period weak blow increasing slowly from one inch to 3 inches in bucket-  
 weak blow increasing to on inch in bucket final flow period.

Recovered 60 ft. of gas in pipe  
 Recovered 100 ft. of heavy oil cut mud (show of free oil) Trace water, 70% oil - 20% mud  
 Recovered 60 ft. of oil cut mud (show of free oil) Trace water - 45% oil, 20% water, 35% mud  
 Recovered          ft. of           
 Recovered          ft. of           
 Remarks: chlorides 49,000 P.P.M.

Time Set Packer(s) 12:14 ~~AM~~ P.M. Time Started Off Bottom 3:21 ~~AM~~ P.M. Maximum Temperature 118  
 Initial Hydrostatic Pressure 1832 P.S.I. (A)  
 Initial Flow Period 45 Minutes (B) 68 P.S.I. to (C) 58 P.S.I.  
 Initial Closed In Period 48 Minutes (D) 1002 P.S.I.  
 Final Flow Period 45 Minutes (E) 113 P.S.I. to (F) 93 P.S.I.  
 Final Closed In Period 45 Minutes (G) 952 P.S.I.  
 Final Hydrostatic Pressure 1832 P.S.I. (H)

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

Date 9-10-80 Test Ticket No. 7380  
 Recorder No. 6077 Capacity 4700 Location 3409 Ft.  
 Clock No. - Elevation 1934 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1832</u>	P.S.I.	<u>12:14P</u>	<u>M</u>
B First Initial Flow Pressure	<u>68</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Mins.
C First Final Flow Pressure	<u>58</u>	P.S.I.	<u>50</u>	<u>Mins. 48</u> Mins.
D Initial Closed-in Pressure	<u>1002</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Mins.
E Second Initial Flow Pressure	<u>113</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Mins.
F Second Final Flow Pressure	<u>93</u>	P.S.I.		
G Final Closed-in Pressure	<u>952</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1832</u>	P.S.I.		

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>16</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>68</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>113</u>	<u>0</u>	<u>93</u>
P 2	<u>58</u>	<u>3</u>	<u>373</u>	<u>5</u>	<u>98</u>	<u>3</u>	<u>514</u>
P 3	<u>50</u>	<u>6</u>	<u>742</u>	<u>10</u>	<u>92</u>	<u>6</u>	<u>710</u>
P 4	<u>50</u>	<u>9</u>	<u>838</u>	<u>15</u>	<u>88</u>	<u>9</u>	<u>795</u>
P 5	<u>50</u>	<u>12</u>	<u>874</u>	<u>20</u>	<u>88</u>	<u>12</u>	<u>826</u>
P 6	<u>55</u>	<u>15</u>	<u>901</u>	<u>25</u>	<u>88</u>	<u>15</u>	<u>850</u>
P 7	<u>55</u>	<u>18</u>	<u>918</u>	<u>30</u>	<u>88</u>	<u>18</u>	<u>867</u>
P 8	<u>55</u>	<u>21</u>	<u>932</u>	<u>35</u>	<u>88</u>	<u>21</u>	<u>882</u>
P 9	<u>55</u>	<u>24</u>	<u>949</u>	<u>40</u>	<u>92</u>	<u>24</u>	<u>894</u>
P10	<u>58</u>	<u>27</u>	<u>959</u>	<u>45</u>	<u>93</u>	<u>27</u>	<u>906</u>
P11		<u>30</u>	<u>966</u>			<u>30</u>	<u>915</u>
P12		<u>33</u>	<u>976</u>			<u>33</u>	<u>923</u>
P13		<u>36</u>	<u>981</u>			<u>36</u>	<u>930</u>
P14		<u>39</u>	<u>988</u>			<u>39</u>	<u>937</u>
P15		<u>42</u>	<u>993</u>			<u>42</u>	<u>942</u>
P16		<u>45</u>	<u>998</u>			<u>45</u>	<u>952</u>
P17		<u>48</u>	<u>1002</u>				
P18							
P19							
P20							