



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

DATE 1/18/80

Petroleum Energy, Inc.
 Suite 710, One Twenty Building
 Wichita, Kansas 67202

CHARGE TO

Well Report No. 5480
 Unit No.
 District

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	Habiger	Barton	1	198	12W

One drill stem test from 3208' to 3224' (Test 1) \$ 500.00

POSTED

Discount \$ 5.00	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 5480
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 5480

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

Elevation 1837 KB Formation Lam KC Eff. Pay Ft.

District Great Bend Date 1-18-80 Customer Order No.

COMPANY NAME PETROLEUM ENERGY INC
ADDRESS SUITE 710 ONE TWENTY BLDG WICHITA KS 67202
LEASE AND WELL NO. #2 Habiger COUNTY BARTON STATE KS Sec. 1 Twp 19 S Rge 12 W
Mail Invoice To same Co. Name same Address No. Copies Requested 5
Mail Charts To same Address No. Copies Requested 57

Formation Test No. 1 Interval Tested from 3208 ft. to 3224 ft. Total Depth 3224 ft.
Packer Depth 3203 ft. Size 6 3/4 in. Packer Depth 3208 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) 3217 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 3220 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor DUKE RIG #2 Drill Collar Length I. D. in.
Mud Type STANCH Viscosity 50 Weight Pipe Length 917 I. D. 3.4 in.
Weight 10.2 Water Loss 6.8 cc. Drill Pipe Length 2270 I. D. 3.8 in.
Chlorides 73,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
Jars: Make Serial Number Anchor Length 16 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 XH in.

Blow: STRONG BLOW

Recovered 1275 ft. of GAS IN PIPE
Recovered 125 ft. of SLIGHTLY OIL CUT & HEAVY GAS CUT MUD
Recovered ft. of
Recovered ft. of 1070011 4590 MUD 4590 GAS IN.
Recovered ft. of NO WATER
Remarks:

Time Set Packer(s) 4:09 P.M. Time Started Off Bottom 6:11 P.M. Maximum Temperature 102
Initial Hydrostatic Pressure (A) 1856 P.S.I.
Initial Flow Period Minutes 30 (B) 86 P.S.I. to (C) 86 P.S.I.
Initial Closed In Period Minutes 30 (D) 236 P.S.I.
Final Flow Period Minutes 30 (E) 86 P.S.I. to (F) 86 P.S.I.
Final Closed In Period Minutes 30 (G) 193 P.S.I.
Final Hydrostatic Pressure (H) 1803 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]

FIELD INVOICE

Open Hole Test \$ 500.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 500.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-18-80 Test Ticket No. 5480
 Recorder No. 969 Capacity 4200 Location 3217 Ft.
 Clock No. _____ Elevation 1837 KB Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1826</u>	P.S.I.	<u>4:09 P M</u>	
B First Initial Flow Pressure	<u>82</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>54</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>250</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>88</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>65</u>	P.S.I.		
G Final Closed-in Pressure	<u>215</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1795</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

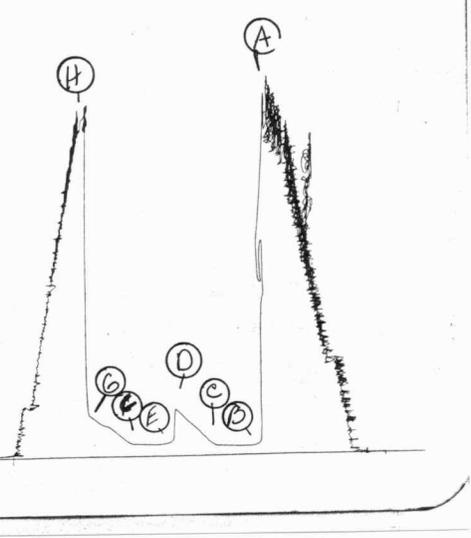
Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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>82</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>88</u>	<u>0</u>	<u>65</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>59</u>	<u>5</u>	<u>88</u>	<u>3</u>	<u>76</u>
P 3 <u>10</u>	<u>47</u>	<u>6</u>	<u>72</u>	<u>10</u>	<u>67</u>	<u>6</u>	<u>92</u>
P 4 <u>15</u>	<u>47</u>	<u>9</u>	<u>92</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>108</u>
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>117</u>	<u>20</u>	<u>63</u>	<u>12</u>	<u>127</u>
P 6 <u>25</u>	<u>51</u>	<u>15</u>	<u>138</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>143</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>160</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>160</u>
P 8 <u>35</u>		<u>21</u>	<u>178</u>	<u>35</u>		<u>21</u>	<u>168</u>
P 9 <u>40</u>		<u>24</u>	<u>199</u>	<u>40</u>		<u>24</u>	<u>177</u>
P10 <u>45</u>		<u>27</u>	<u>219</u>	<u>45</u>		<u>27</u>	<u>193</u>
P11 <u>50</u>		<u>30</u>	<u>250</u>	<u>50</u>		<u>30</u>	<u>215</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</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>	

769

TKC# 5480
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Company Petroleum Energy, Inc. Lease & Well No. Habiger #2
 Elevation 1837 Kelly Bushing Lansing-Kansas City Effective Pay -- Ft. Ticket No. 5480
 Date 1/18/80 Sec. 1 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by Ken Hamlin Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 3208 ft. to 3224 ft. Total Depth 3224 ft.
 Packer Depth 3203 ft. Size 6 3/4 in. Packer Depth 3208 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) 3217 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3220 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Duke Drilling Rig #2 Drill Collar Length -- I. D. -- in.
 Mud Type starch Viscosity 50 Weight Pipe Length 917 I. D. 3.4 in.
 Weight 10.2 Water Loss 6.8 cc. Drill Pipe Length 2270 I. D. 3.8 in.
 Chlorides 72,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 16 ft. Size - 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 XH in.

Blow: Strong blow.

Recovered 1275 ft. of gas in pipe
 Recovered 125 ft. of slightly oil cut and heavy gas cut mud
 Recovered - ft. of (10% oil;45% mud:45% gas)
 Recovered - ft. of -
 Recovered - ft. of No Water

Remarks:

Time Set Packer(s) 4:09 ~~AM~~ P.M. Time Started Off Bottom 6:11 ~~AM~~ P.M. Maximum Temperature 102°
 Initial Hydrostatic Pressure (A) 1826 P.S.I.
 Initial Flow Period Minutes 30 (B) 82 P.S.I. to (C) 54 P.S.I.
 Initial Closed In Period Minutes 30 (D) 250 P.S.I.
 Final Flow Period Minutes 30 (E) 88 P.S.I. to (F) 65 P.S.I.
 Final Closed In Period Minutes 30 (G) 215 P.S.I.
 Final Hydrostatic Pressure (H) 1795 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1/18/80

Test Ticket No. 5480

Recorder No. 969

Capacity 4200

Location 3217 Ft.

Clock No. -----

Elevation 1837 Kelly Bushing

Well Temperature 102 °F

Point	Pressure	
A Initial Hydrostatic Mud	1826	P.S.I.
B First Initial Flow Pressure	82	P.S.I.
C First Final Flow Pressure	54	P.S.I.
D Initial Closed-in Pressure	250	P.S.I.
E Second Initial Flow Pressure	88	P.S.I.
F Second Final Flow Pressure	65	P.S.I.
G Final Closed-in Pressure	215	P.S.I.
H Final Hydrostatic Mud	1795	P.S.I.

	Time Given	Time Computed
Open Tool	4:09P	M
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 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 0	82	0	54	0	88	0	65
P 2 5	51	3	59	5	88	3	76
P 3 10	47	6	72	10	67	6	92
P 4 15	47	9	92	15	61	9	108
P 5 20	49	12	117	20	63	12	127
P 6 25	51	15	138	25	64	15	143
P 7 30	54	18	160	30	65	18	160
P 8		21	178			21	168
P 9		24	199			24	177
P10		27	219			27	193
P11		30	250			30	215
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

DATE 1/19/80

Petroleum Energy, Inc. 67201
 One Twenty Building, Suite 710
 Wichita, Kansas 67202

CHARGE TO

Well Report No. 5481
 Unit No.
 District

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
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Well No.	Farm	County	Sec.	Twp.	Range
#2	Habiger	Barton	1	19S	12W

One drill stem test from 3258' to 3280' (Test 2) \$ 500.00

POSTED

Discount \$ 5.00	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 5481
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 5481

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

Elevation 1837 KB Formation KC Eff. Pay - Ft.

District Great Bend Date 1-19-80 Customer Order No. -

COMPANY NAME Petroleum Energy, Inc

ADDRESS Suite 710 One Twenty Bldg. Wichita KS 67202

LEASE AND WELL NO. #2 Habigen COUNTY Barton STATE KS Sec. 1 Twp 19S Rge 12W

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

Mail Charts To same Address same No. Copies Requested 57

Formation Test No. 2 Interval Tested from 3258 ft. to 3280 ft. Total Depth 3280 ft.
Packer Depth 3253 ft. Size 6 3/4 in. Packer Depth 3258 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) 3273 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 3276 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Duke Rig #2 Drill Collar Length - I. D. - in.
Mud Type Stanch Viscosity 44 Weight Pipe Length 917 I. D. 3.4 in.
Weight 10.3 Water Loss 8.8 cc. Drill Pipe Length 2320 I. D. 3.8 in.
Chlorides 64000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
Jars: Make - Serial Number - Anchor Length 22 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 XH in.

Blow: weak blow increasing to fair blow first opening (fair blow in 5 min) - fair blow second opening (3 1/2 inches in bucket)

Recovered 600 ft. of Gas in pipe
Recovered 60 ft. of slightly oil cut & heavy gas cut mud
Recovered - ft. of 1000 oil 4500 mud 4500 gas or
Recovered - ft. of (NO WATER)
Remarks:

Time Set	Packer(s)	Time Started	Off Bottom	Maximum Temperature
6:53	AM.	9:25	AM.	107
Initial Hydrostatic Pressure	(A)	1863	P.S.I.	
Initial Flow Period	Minutes	45	(B) 40	P.S.I. to (C) 40 P.S.I.
Initial Closed In Period	Minutes	30	(D) 81	P.S.I.
Final Flow Period	Minutes	45	(E) 51	P.S.I. to (F) 51 P.S.I.
Final Closed In Period	Minutes	30	(G) 81	P.S.I.
Final Hydrostatic Pressure	(H)	1842	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: *Ken Vanhook*
Signature of Customer or his authorized representative

Western Representative: *Roger Lively* Thank you

FIELD INVOICE

Open Hole Test	\$ 500.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
TOTAL	\$ 500.00

WESTERN TESTING CO., INC.

Pressure Data

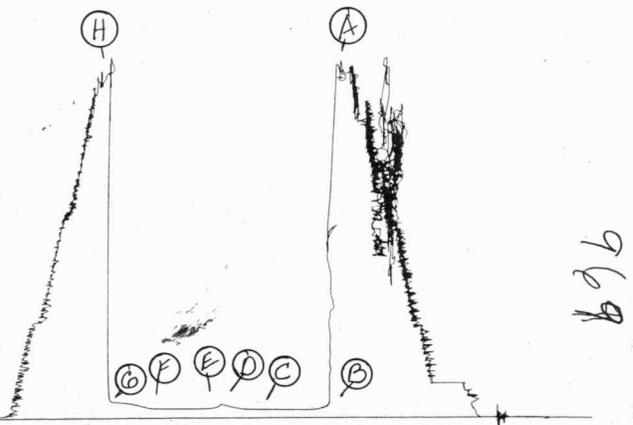
Date 1-19-80 Recorder No. 969 Capacity 4200 Location 3273 Ft.
 Clock No. _____ Elevation 1837 KB Well Temperature 107 °F
 Test Ticket No. 5481

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1862</u>	P.S.I.	<u>6:53</u> A.M.	
B First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>43</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>72</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>48</u>	P.S.I.		
G Final Closed-in Pressure	<u>86</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1834</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>10</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>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>43</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>48</u>
P 2	<u>5</u>	<u>3</u>		<u>5</u>	<u>51</u>	<u>3</u>	<u>49</u>
P 3	<u>10</u>	<u>6</u>		<u>10</u>	<u>48</u>	<u>6</u>	<u>52</u>
P 4	<u>15</u>	<u>9</u>		<u>15</u>		<u>9</u>	<u>58</u>
P 5	<u>20</u>	<u>12</u>	<u>43</u>	<u>20</u>		<u>12</u>	<u>63</u>
P 6	<u>25</u>	<u>15</u>	<u>45</u>	<u>25</u>		<u>15</u>	<u>70</u>
P 7	<u>30</u>	<u>18</u>	<u>50</u>	<u>30</u>		<u>18</u>	<u>73</u>
P 8	<u>35</u>	<u>21</u>	<u>56</u>	<u>35</u>		<u>21</u>	<u>76</u> 79
P 9	<u>40</u>	<u>24</u>	<u>61</u>	<u>40</u>		<u>24</u>	<u>80</u>
P10	<u>45</u>	<u>27</u>	<u>67</u>	<u>45</u>	<u>48</u>	<u>27</u>	<u>83</u>
P11	<u>50</u>	<u>30</u>	<u>72</u>	<u>50</u>		<u>30</u>	<u>86</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</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>	

TKT #5481



696

Company Petroleum Energy, Inc. Lease & Well No. Habiger #2
 Elevation 1837 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 5481
 Date 1/19/80 Sec. 1 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by Ken Hamlin Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 3258 ft. to 3280 ft. Total Depth 3280 ft.
 Packer Depth 3253 ft. Size 6 3/4 in. Packer Depth 3258 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) 3273 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3276 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Duke Drilling Rig #2 Drill Collar Length --- I. D. -- in.
 Mud Type starch Viscosity 44 Weight Pipe Length 917 I. D. 3.4 in.
 Weight 10.3 Water Loss 8.8 cc. Drill Pipe Length 2320 I. D. 3.8 in.
 Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 22 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 XH in.

Blow: Weak blow increasing to fair blow first opening. (Fair blow in five minutes)
Fair blow second opening (3 1/2 inches in bucket)

Recovered 600 ft. of gas in pipe
 Recovered 60 ft. of slightly oil cut and heavy gas cut mud
 Recovered ft. of (10% oil; 45% mud; 45% gas)
 Recovered ft. of (No water)

Remarks: _____

Time Set Packer(s) 6:53 ~~P.M.~~ A.M. Time Started Off Bottom 9:25 ~~P.M.~~ A.M. Maximum Temperature 107°
 Initial Hydrostatic Pressure (A) 1862 P.S.I.
 Initial Flow Period Minutes 45 (B) 53 P.S.I. to (C) 43 P.S.I.
 Initial Closed In Period Minutes 30 (D) 72 P.S.I.
 Final Flow Period Minutes 45 (E) 51 P.S.I. to (F) 48 P.S.I.
 Final Closed In Period Minutes 30 (G) 86 P.S.I.
 Final Hydrostatic Pressure (H) 1834 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1/19/80 Test Ticket No. 5481
 Recorder No. 969 Capacity 4200 Location 3273 Ft.
 Clock No. -- Elevation 1837 Kelly Bushing Well Temperature 107 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1862</u>	P.S.I.	<u>6:53A</u>	<u>M</u>
B First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>45</u>	<u>Mins. 45 Mins.</u>
C First Final Flow Pressure	<u>43</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
D Initial Closed-in Pressure	<u>72</u>	P.S.I.	<u>45</u>	<u>Mins. 45 Mins.</u>
E Second Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
F Second Final Flow Pressure	<u>48</u>	P.S.I.		
G Final Closed-in Pressure	<u>86</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1834</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>10</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>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>43</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>48</u>
P 2	<u>5</u>	<u>3</u>	<u>43</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>49</u>
P 3	<u>10</u>	<u>6</u>	<u>43</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>52</u>
P 4	<u>15</u>	<u>9</u>	<u>43</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>58</u>
P 5	<u>20</u>	<u>12</u>	<u>43</u>	<u>20</u>	<u>48</u>	<u>12</u>	<u>63</u>
P 6	<u>25</u>	<u>15</u>	<u>45</u>	<u>25</u>	<u>48</u>	<u>15</u>	<u>70</u>
P 7	<u>30</u>	<u>18</u>	<u>50</u>	<u>30</u>	<u>48</u>	<u>18</u>	<u>73</u>
P 8	<u>35</u>	<u>21</u>	<u>56</u>	<u>35</u>	<u>48</u>	<u>21</u>	<u>76</u>
P 9	<u>40</u>	<u>24</u>	<u>61</u>	<u>40</u>	<u>48</u>	<u>24</u>	<u>80</u>
P10	<u>45</u>	<u>27</u>	<u>67</u>	<u>45</u>	<u>48</u>	<u>27</u>	<u>83</u>
P11		<u>30</u>	<u>72</u>			<u>30</u>	<u>86</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

DATE 1/19/80

Petroleum Energy, Inc.
Suite 710, One Twenty Building
Wichita, Kansas 67202

CHARGE TO

Well Report No. 5482
Unit No.
District

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
#2	Habiger	Barton	1	19S	12W
One drill stem test from 3282' to 3320'			(TSst 3)		\$ 500.00

POSTED

Discount \$ 5.00	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 5482
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 5482

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

Elevation 1837 KB Formation KC Eff. Pay Ft.

District Great Bend Date 1-19-80 Customer Order No.

COMPANY NAME Petroleum Energy Inc
ADDRESS Suite 710 ONE TWENTY BLDG WICHITA KS 67202
LEASE AND WELL NO. #2 Habiger COUNTY BARTON STATE KS Sec. 1 Twp 19S Rge 12W
Mail Invoice To same Co. Name same Address No. Copies Requested 5
Mail Charts To same Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 3282 ft. to 3320 ft. Total Depth 3320 ft.
Packer Depth 3277 ft. Size 6 3/4 in. Packer Depth 3282 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) 3313 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 3316 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Duke Rig #2 Drill Collar Length I. D. in.
Mud Type Starch Viscosity 44 Weight Pipe Length 917 I. D. 3.4 in.
Weight 10.2 Water Loss 8.8 cc. Drill Pipe Length 2344 I. D. 3.8 in.
Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
Jars: Make Serial Number Anchor Length 38 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 XH in.

Blow: STRONG BLOW

Recovered 1500 ft. of Gas in pipe
Recovered 60 ft. of slightly oil + Gas cut mud (15% oil - 45% mud)
Recovered 180 ft. of oil & Gas cut mud (40% Gas ok.)
Remarks: No water

Time Set Packer(s) 9:58 AM P.M. Time Started Off Bottom 12:30 AM P.M. Maximum Temperature 108
Initial Hydrostatic Pressure (A) 1835 P.S.I.
Initial Flow Period Minutes 45 (B) 107 P.S.I. to (C) 107 P.S.I.
Initial Closed In Period Minutes 30 (D) 409 P.S.I.
Final Flow Period Minutes 45 (E) 139 P.S.I. to (F) 139 P.S.I.
Final Closed In Period Minutes 30 (G) 430 P.S.I.
Final Hydrostatic Pressure (H) 1813 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 Ken Franklin Signature of Customer or his authorized representative
Western Representative Roger Eisenberg Frank Ryan

FIELD INVOICE

Open Hole Test \$ 500.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 500.00

JAN 22 1980

WESTERN TESTING CO., INC.

Pressure Data

Date 1-19-80 Test Ticket No. 5482
 Recorder No. 969 Capacity 4200 Location 3313 Ft.
 Clock No. _____ Elevation 1837 KB Well Temperature 108 °F

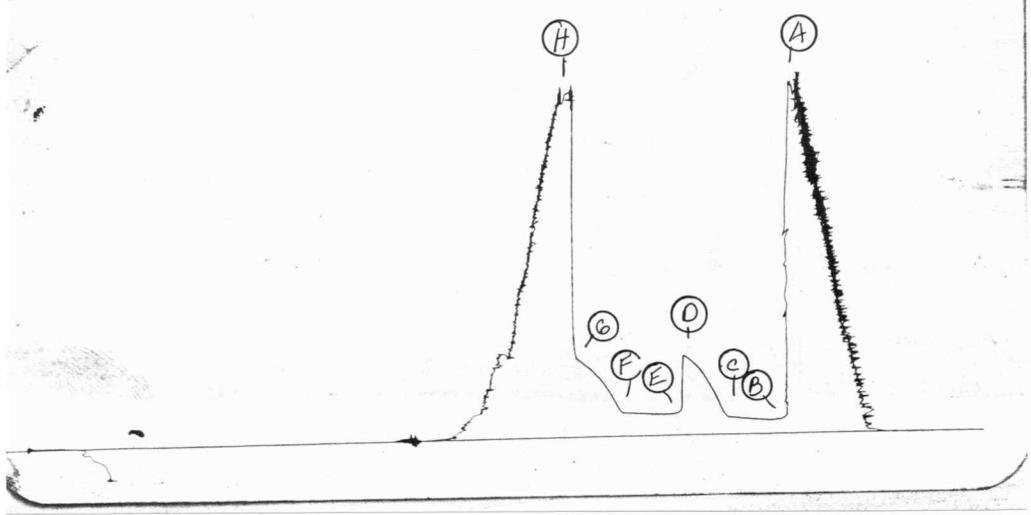
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1830</u>	P.S.I.	<u>9:58 P</u>	M
B First Initial Flow Pressure	<u>96</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>90</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>418</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>141</u>	P.S.I.	<u>30</u>	Mins. <u>33</u> Mins.
F Second Final Flow Pressure	<u>126</u>	P.S.I.		
G Final Closed-in Pressure	<u>416</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1824</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>10</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>11</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>90</u>	<u>0</u>	<u>141</u>	<u>0</u>	<u>126</u>
P 2	<u>5</u>	<u>3</u>	<u>104</u>	<u>5</u>	<u>115</u>	<u>3</u>	<u>154</u>
P 3	<u>10</u>	<u>6</u>	<u>145</u>	<u>10</u>	<u>111</u>	<u>6</u>	<u>199</u>
P 4	<u>15</u>	<u>9</u>	<u>197</u>	<u>15</u>	<u>111</u>	<u>9</u>	<u>236</u>
P 5	<u>20</u>	<u>12</u>	<u>238</u>	<u>20</u>	<u>114</u>	<u>12</u>	<u>268</u>
P 6	<u>25</u>	<u>15</u>	<u>275</u>	<u>25</u>	<u>117</u>	<u>15</u>	<u>300</u>
P 7	<u>30</u>	<u>18</u>	<u>309</u>	<u>30</u>	<u>119</u>	<u>18</u>	<u>320</u>
P 8	<u>35</u>	<u>21</u>	<u>338</u>	<u>35</u>	<u>121</u>	<u>21</u>	<u>346</u>
P 9	<u>40</u>	<u>24</u>	<u>363</u>	<u>40</u>	<u>124</u>	<u>24</u>	<u>367</u>
P 10	<u>45</u>	<u>27</u>	<u>390</u>	<u>45</u>	<u>126</u>	<u>27</u>	<u>383</u>
P 11	<u>50</u>	<u>30</u>	<u>418</u>	<u>50</u>		<u>30</u>	<u>402</u>
P 12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	<u>416</u>
P 13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P 14		<u>39</u>		<u>65</u>		<u>39</u>	
P 15		<u>42</u>		<u>70</u>		<u>42</u>	
P 16		<u>45</u>		<u>75</u>		<u>45</u>	
P 17		<u>48</u>		<u>80</u>		<u>48</u>	
P 18		<u>51</u>		<u>85</u>		<u>51</u>	
P 19		<u>54</u>		<u>90</u>		<u>54</u>	
P 20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

969

TKT # 5482
I



Company Petroleum Energy, Inc. Lease & Well No. Habiger #2
 Elevation 1837 Kelly Bushing Kansas City Formation Effective Pay --- Ft. Ticket No. 5482
 Date 1/19/80 Sec. 1 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by Ken Hamlin Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 3282 ft. to 3320 ft. Total Depth 3320 ft.
 Packer Depth 3277 ft. Size 6 3/4 in. Packer Depth 3282 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) 3313 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3316 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Duke Drilling Rig #2 Drill Collar Length -- I. D. -- in.
 Mud Type starch Viscosity 44 Weight Pipe Length 917 I. D. 3.4 in.
 Weight 10.2 Water Loss 8.8 cc. Drill Pipe Length 2344 I. D. 3.8 in.
 Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 38 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 XH in.

Blow: Strong blow.

Recovered 1500 ft. of gas in pipe
 Recovered 60 ft. of slightly oil and gas cut mud
 Recovered 180 ft. of oil and gas cut mud (15% oil;45% mud;40% gas)
 Recovered ft. of
 Recovered ft. of No water

Remarks:

Time Set Packer(s) 9:58 A.M. / P.M. Time Started Off Bottom 12:30 A.M. / P.M. Maximum Temperature 108°
 Initial Hydrostatic Pressure (A) 1830 P.S.I.
 Initial Flow Period Minutes 45 (B) 96 P.S.I. to (C) 90 P.S.I.
 Initial Closed In Period Minutes 30 (D) 418 P.S.I.
 Final Flow Period Minutes 45 (E) 141 P.S.I. to (F) 126 P.S.I.
 Final Closed In Period Minutes 33 (G) 416 P.S.I.
 Final Hydrostatic Pressure (H) 1824 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1/19/80 Test Ticket No. 5482
 Recorder No. 969 Capacity 4200 Location 3313 Ft.
 Clock No. ----- Elevation 1837 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1830</u>	P.S.I.	<u>9:58P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>96</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Mins.
C. First Final Flow Pressure	<u>90</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
D. Initial Closed-in Pressure	<u>418</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Mins.
E. Second Initial Flow Pressure	<u>141</u>	P.S.I.	<u>30</u>	<u>Mins. 33</u> Mins.
F. Second Final Flow Pressure	<u>126</u>	P.S.I.		
G. Final Closed-in Pressure	<u>416</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1824</u>	P.S.I.		

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>10</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>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>96</u>	<u>0</u>	<u>90</u>	<u>0</u>	<u>141</u>	<u>0</u>	<u>126</u>
P 2	<u>76</u>	<u>3</u>	<u>104</u>	<u>5</u>	<u>115</u>	<u>3</u>	<u>154</u>
P 3	<u>73</u>	<u>6</u>	<u>145</u>	<u>10</u>	<u>111</u>	<u>6</u>	<u>199</u>
P 4	<u>75</u>	<u>9</u>	<u>197</u>	<u>15</u>	<u>111</u>	<u>9</u>	<u>236</u>
P 5	<u>76</u>	<u>12</u>	<u>238</u>	<u>20</u>	<u>114</u>	<u>12</u>	<u>268</u>
P 6	<u>78</u>	<u>15</u>	<u>275</u>	<u>25</u>	<u>117</u>	<u>15</u>	<u>300</u>
P 7	<u>82</u>	<u>18</u>	<u>309</u>	<u>30</u>	<u>119</u>	<u>18</u>	<u>320</u>
P 8	<u>85</u>	<u>21</u>	<u>338</u>	<u>35</u>	<u>121</u>	<u>21</u>	<u>346</u>
P 9	<u>88</u>	<u>24</u>	<u>363</u>	<u>40</u>	<u>124</u>	<u>24</u>	<u>367</u>
P10	<u>90</u>	<u>27</u>	<u>390</u>	<u>45</u>	<u>126</u>	<u>27</u>	<u>383</u>
P11		<u>30</u>	<u>418</u>			<u>30</u>	<u>402</u>
P12						<u>33</u>	<u>416</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

DATE 1/21/80

Petroleum Energy, Inc.
One Twenty Building, Suite 710
Wichita, Kansas 67202

CHARGE TO

Well Report No. _____
Unit No. 5483
District _____

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
#2	Habiger	Barton	1	19S	12W

One drill stem test from 3380' to 3439' (Test 4) \$ 500.00

POSTED

Discount \$ 5.00	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 5483
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 5483

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

Elevation 1837 KB Formation Arbuckle Eff. Pay — Ft.

District Great Bend Date 1-21-80 Customer Order No. —

COMPANY NAME Petroleum Energy Inc

ADDRESS Suite 710 One Twenty Bldg Wichita KS 67202

LEASE AND WELL NO. #2 Habiger COUNTY Barton STATE KS Sec. 1 Twp 19S Rge 12W

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

Mail Charts To same Address No. Copies Requested 5

Formation Test No. 4 Interval Tested from 3380 ft. to 3439 ft. Total Depth 3439 ft.

Packer Depth 3375 ft. Size 6 3/4 in. Packer Depth 3380 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) 3430 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 3433 ft. Recorder Number 969 Cap. 4200

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

Drilling Contractor Duke Rig #2 Drill Collar Length — I. D. — in.

Mud Type starch Viscosity 40 Weight Pipe Length 917 I. D. 3.4 in.

Weight 10.0 Water Loss 15.6 cc. Drill Pipe Length 2442 I. D. 3.8 in.

Chlorides 54,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make — Serial Number — Anchor Length 59 ft. Size 5 1/2 with JT Drill Pipe

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 X 4 in.

Blow: Weak Blow First opening NO BLOW second opening

Recovered 15 ft. of oil cut mud 8900 oil - 9290 mud - NO WATER -

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Remarks:

Time Set Packer(s) 5:10 A.M. Time Started Off Bottom 6:32 A.M. Maximum Temperature 109

Initial Hydrostatic Pressure (A) 1947 P.S.I.

Initial Flow Period Minutes 20 (B) 81 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period Minutes 20 (D) 563 P.S.I.

Final Flow Period Minutes 20 (E) 71 P.S.I. to (F) 71 P.S.I.

Final Closed In Period Minutes 20 (G) 594 P.S.I.

Final Hydrostatic Pressure (H) 1905 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 Dan Hamlin Signature of Customer or his authorized representative

Western Representative Roger Lisenby Thank you

FIELD INVOICE

Open Hole Test	\$ 500.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
TOTAL	\$ 500.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-21-80 Test Ticket No. 5483
 Recorder No. 1051 Capacity 4250 Location 3430 Ft.
 Clock No. _____ Elevation 1837 RB Well Temperature 109 °F

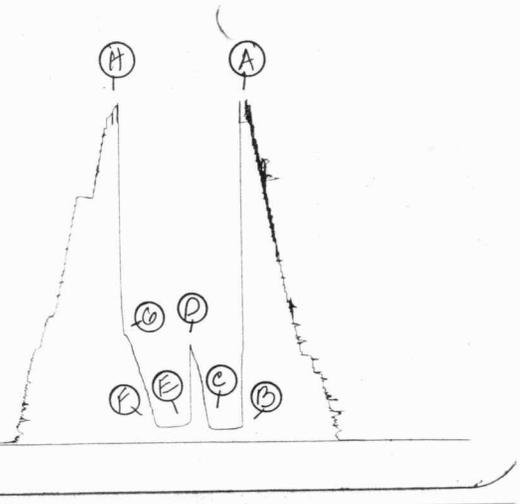
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1880</u>	P.S.I.	<u>5:10</u> A M	
B First Initial Flow Pressure	<u>82</u>	P.S.I.	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>69</u>	P.S.I.	<u>20</u> Mins.	<u>18</u> Mins.
D Initial Closed-in Pressure	<u>540</u>	P.S.I.	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>120</u>	P.S.I.	<u>20</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>84</u>	P.S.I.		
G Final Closed-in Pressure	<u>598</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1874</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>9</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>69</u>	<u>0</u>	<u>120</u>	<u>0</u>	<u>84</u>
P 2	<u>5</u>	<u>3</u>	<u>77</u>	<u>5</u>	<u>92</u>	<u>3</u>	<u>88</u>
P 3	<u>10</u>	<u>6</u>	<u>69</u>	<u>10</u>	<u>86</u>	<u>6</u>	<u>153</u>
P 4	<u>15</u>	<u>9</u>	<u>325</u>	<u>15</u>	<u>84</u>	<u>9</u>	<u>232</u>
P 5	<u>20</u>	<u>12</u>	<u>405</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>303</u>
P 6	<u>25</u>	<u>15</u>	<u>463</u>	<u>25</u>		<u>15</u>	<u>366</u>
P 7	<u>30</u>	<u>18</u>	<u>540</u>	<u>30</u>		<u>18</u>	<u>442</u>
P 8	<u>35</u>	<u>21</u>		<u>35</u>		<u>21</u>	<u>487</u>
P 9	<u>40</u>	<u>24</u>		<u>40</u>		<u>24</u>	<u>553</u>
P10	<u>45</u>	<u>27</u>		<u>45</u>		<u>27</u>	<u>598</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>		<u>30</u>	
P12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</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>	

1051

TKT# 5483
I



Company Petroleum Energy, Inc. Lease & Well No. Habiger #2
 Elevation 1837 Kelly Bushing Arbuckle Formation Effective Pay -- Ft. Ticket No. 5483
 Date 1/21/80 Sec. 1 Twp. 19S Range 12W County Barton State Kansas
 Test Approved by Ken Hamlin Western Representative Roger Lisenby

Formation Test No. 4 Interval Tested from 3380 ft. to 3439 ft. Total Depth 3439 ft.
 Packer Depth 3375 ft. Size 6 3/4 in. Packer Depth 3380 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) 3430 ft. Recorder Number 1051 Cap. 4250
 Bottom Recorder Depth (Outside) 3433 ft. Recorder Number 969 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Duke rilling Rig #2 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 40 Weight Pipe Length 917 I. D. 3.4 in.
 Weight 10.0 Water Loss 15.6 cc. Drill Pipe Length 2442 I. D. 3.8 in.
 Chlorides 54,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 59 ft. Size 5 1/2 with Jt. drill in. pipe
 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 XH in.

Weak blow first opening. No blow second opening.
 Blow: _____

Recovered 15 ft. of oil cut mud (8% oil; 92% mud) No water
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 5:10 A.M. Time Started Off Bottom 6:32 P.M. Maximum Temperature 109°
 Initial Hydrostatic Pressure (A) 1880 P.S.I.
 Initial Flow Period Minutes 20 (B) 82 P.S.I. to (C) 69 P.S.I.
 Initial Closed In Period Minutes 18 (D) 540 P.S.I.
 Final Flow Period Minutes 20 (E) 120 P.S.I. to (F) 84 P.S.I.
 Final Closed In Period Minutes 27 (G) 598 P.S.I.
 Final Hydrostatic Pressure (H) 1874 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1-21-80 Test Ticket No. 5483
 Recorder No. 1051 Capacity 4250 Location 3430 Ft.
 Clock No. _____ Elevation 1837 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1880</u> P.S.I.	Open Tool	<u>5:10 AM</u>	
B First Initial Flow Pressure	<u>82</u> P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>69</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>18</u> Mins.
D Initial Closed-in Pressure	<u>540</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>120</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>84</u> P.S.I.			
G Final Closed-in Pressure	<u>598</u> P.S.I.			
H Final Hydrostatic Mud	<u>1874</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 4 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 6 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 4 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 9 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>82</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>120</u>	<u>0</u>	<u>84</u>
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>77</u>	<u>5</u>	<u>92</u>	<u>3</u>	<u>88</u>
P 3 <u>10</u>	<u>69</u>	<u>6</u>	<u>69</u>	<u>10</u>	<u>86</u>	<u>6</u>	<u>153</u>
P 4 <u>15</u>	<u>69</u>	<u>9</u>	<u>325</u>	<u>15</u>	<u>84</u>	<u>9</u>	<u>232</u>
P 5 <u>20</u>	<u>69</u>	<u>12</u>	<u>405</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>303</u>
P 6 _____	_____	<u>15</u>	<u>463</u>	_____	_____	<u>15</u>	<u>366</u>
P 7 _____	_____	<u>18</u>	<u>540</u>	_____	_____	<u>18</u>	<u>442</u>
P 8 _____	_____	_____	_____	_____	_____	<u>21</u>	<u>487</u>
P 9 _____	_____	_____	_____	_____	_____	<u>24</u>	<u>553</u>
P10 _____	_____	_____	_____	_____	_____	<u>27</u>	<u>598</u>
P11 _____	_____	_____	_____	_____	_____	_____	_____
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____