



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 4954

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

Elevation 1891 KB Formation ARBUCKLE Eff. Pay Ft.

District GREAT BEND Date 2/13/80 Customer Order No.

COMPANY NAME PETROLEUM ENERGY

ADDRESS SUITE 710 120 BUILDING WICHITA KS 67202

LEASE AND WELL NO. BURMEISTER 2A COUNTY BARTON STATE KS Sec. 2 Twp 17S Rge 11W

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

Mail Charts To Co. Name SAME AS ABOVE Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3286 ft. to 3317 ft. Total Depth 3317 ft.  
Packer Depth 3281 ft. Size 6 3/4 in. Packer Depth 3286 ft. Size 6 3/4 in.  
Packer Depth ft. Size in. Packer Depth ft. Size in.  
Depth of Selective Zone Set

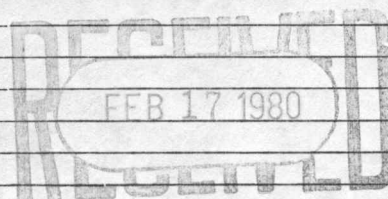
Top Recorder Depth (Inside) 3308 ft. Recorder Number 10266 Cap. 4650  
Bottom Recorder Depth (Outside) 3311 ft. Recorder Number 6233 Cap. 4000  
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor WHITE + ELLES REC 22 Drill Collar Length 313 I. D. 2.2 in.  
Mud Type STARCH SALT Viscosity 42 Weight Pipe Length I. D. in.  
Weight 10.4 Water Loss 18.0 cc. Drill Pipe Length 29.79 I. D. 3.8 in.  
Chlorides 62,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.  
Jars: Make Serial Number Anchor Length 31 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 in.

Blow: 1ST FLOW - SURGED 3"-4" in bucket (during 1st 5 min) died to 1/2" flow fast  
2ND FLOW - NO BLOW 20 min of flow

Recovered 5' ft. of Drilling Mud 62,000 ppm Chlorides - pH 8.0

Recovered ft. of  
Recovered ft. of  
Recovered ft. of  
Recovered ft. of  
Recovered ft. of  
Remarks:



Time Set Packer(s) 3:30 AM P.M. Time Started Off Bottom 5:45 AM P.M. Maximum Temperature 109°  
Initial Hydrostatic Pressure (A) 1820 P.S.I.  
Initial Flow Period Minutes 45 (B) 82 P.S.I. to (C) 82 P.S.I.  
Initial Closed In Period Minutes 30 (D) 93 P.S.I.  
Final Flow Period Minutes 30 (E) 82 P.S.I. to (F) 82 P.S.I.  
Final Closed In Period Minutes 30 (G) 234 P.S.I.  
Final Hydrostatic Pressure (H) 1809 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] 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 2-13-80 Test Ticket No. 4954  
 Recorder No. 10266 Capacity 4650 Location 3308 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1891 KB Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1844</u>	P.S.I.	<u>3:30</u>	<u>1 M</u>
B First Initial Flow Pressure	<u>99</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>92</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>108</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>89</u>	P.S.I.		
G Final Closed-in Pressure	<u>174</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1821</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: 9 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.

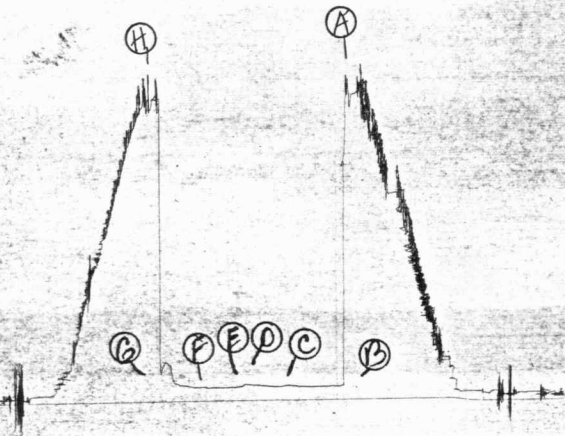
Final Shut-In  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>99</u>	0	<u>92</u>	0	<u>89</u>	0	<u>89</u>
P 2	<u>92</u>	3	<u>92</u>	3	<u>89</u>	3	<u>89</u>
P 3	<u>92</u>	6	<u>92</u>	6	<u>89</u>	6	<u>94</u>
P 4	<u>92</u>	9	<u>94</u>	9	<u>89</u>	9	<u>96</u>
P 5	<u>89</u>	12	<u>96</u>	12	<u>88</u>	12	<u>102</u>
P 6	<u>89</u>	15	<u>99</u>	15	<u>88</u>	15	<u>106</u>
P 7	<u>92</u>	18	<u>101</u>	18	<u>89</u>	18	<u>115</u>
P 8	<u>94</u>	21	<u>103</u>	21		21	<u>146</u>
P 9	<u>101</u>	24	<u>106</u>	24		24	<u>228</u>
P 10	<u>92</u>	27	<u>108</u>	27		27	<u>242</u>
P 11		30		30		30	<u>174</u>
P 12		33		33		33	
P 13		36		36		36	
P 14		39		39		39	
P 15		42		42		42	
P 16		45		45		45	
P 17		48		48		48	
P 18		51		51		51	
P 19		54		54		54	
P 20		57		57		57	
		60		60		60	

*Strange!!!*

10200  
#4954

TKT # 4954  
I



Company Petroleum Energy, Inc. Lease & Well No. Burmeister # 2-"A"  
 Elevation 1891 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 4954  
 Date 2/13/80 Sec. 2 Twp. 17S Range 11W County Barton State Kansas  
 Test Approved by Ken Hamlin Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 3286 ft. to 3317 ft. Total Depth 3317 ft.  
 Packer Depth 3281 ft. Size 6 3/4 in. Packer Depth 3286 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) 3308 ft. Recorder Number 10266 Cap. 4650  
 Bottom Recorder Depth (Outside) 3311 ft. Recorder Number 6233 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drilling Rig #2 Drill Collar Length 313 I. D. 2.2 in.  
 Mud Type starch=salt=gel Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 10.4 Water Loss 18.0 cc. Drill Pipe Length 2979 I. D. 3.8 in.  
 Chlorides 62,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.  
 Jars: Make -- Serial Number - Anchor Length 31 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 in.

Blow: First flow surged 3" -4" in bucket (during first five minutes) Died to 1/2" for last twenty minutes of flow. Second flow, no blow.

Recovered 5 ft. of drilling mud chlorides 62,000 PH8.0  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:      
     
   

Time Set Packer(s) 3:30 ~~P.M.~~ A.M. Time Started Off Bottom 5:45 ~~P.M.~~ A.M. Maximum Temperature 109°  
 Initial Hydrostatic Pressure 1844 P.S.I. (A)  
 Initial Flow Period 45 Minutes (B) 99 P.S.I. to (C) 92 P.S.I.  
 Initial Closed In Period 27 Minutes (D) 108 P.S.I.  
 Final Flow Period 30 Minutes (E) 89 P.S.I. to (F) 89 P.S.I.  
 Final Closed In Period 30 Minutes (G) 174 P.S.I.  
 Final Hydrostatic Pressure 1821 P.S.I. (H)

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

Date 2/13/80 Recorder No. 10266 Capacity 4650 Test Ticket No. 4954  
 Clock No. -- Elevation 1891 Kelly Bushing Location 3308 Ft. 109  
 Well Temperature \_\_\_\_\_ °F

Point	Pressure		Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	1844	P.S.I.		3:30A	
B. First Initial Flow Pressure	99	P.S.I.	First Flow Pressure	45	45
C. First Final Flow Pressure	92	P.S.I.	Initial Closed-in Pressure	30	27
D. Initial Closed-in Pressure	108	P.S.I.	Second Flow Pressure	30	30
E. Second Initial Flow Pressure	89	P.S.I.	Final Closed-in Pressure	30	30
F. Second Final Flow Pressure	89	P.S.I.			
G. Final Closed-in Pressure	174	P.S.I.			
H. Final Hydrostatic Mud	1821	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: 9 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	99	0	92	0	89	0	89
P 2 5	92	3	92	5	89	3	89
P 3 10	92	6	92	10	89	6	94
P 4 15	92	9	94	15	89	9	96
P 5 20	89	12	96	20	88	12	102
P 6 25	89	15	99	25	88	15	106
P 7 30	92	18	101	30	89	18	115
P 8 35	94	21	103			21	146
P 9 40	101	24	106			24	228
P10 45	92	27	108			27	242
P11						30	174
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4955

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

Elevation 1891 KB Formation ARBUCKLE Eff. Pay Ft.

District GREAT BEND Date 2/13/80 Customer Order No.

COMPANY NAME PETROLEUM ENERGY INC

ADDRESS SUITE 710 120 BUILDING WICHITA KS 67202

LEASE AND WELL NO. BURMEISTER 2-A COUNTY BARTON STATE KS Sec. 2 Twp 17 Rge 11W

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

Mail Charts To SAME AS ABOVE Address No. Copies Requested 57

Formation Test No. 2 Interval Tested from 3293 ft. to 3329 ft. Total Depth 3329 ft.
Packer Depth 3288 ft. Size 6 3/4 in. Packer Depth 3293 ft. Size 6 3/4 in.
Packer Depth ft. Size in. Packer Depth ft. Size in.

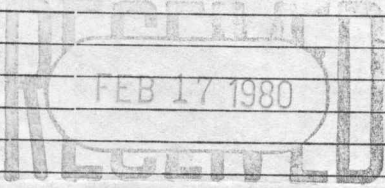
Top Recorder Depth (Inside) 3320 ft. Recorder Number 10266 Cap. 4650
Bottom Recorder Depth (Outside) 3323 ft. Recorder Number 6233 Cap. 4000
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor WHITE & ELLIS
Mud Type STARCH-GEL Viscosity 42
Weight 10.4 Water Loss 78.0 cc.
Chlorides 62,000 P.P.M.
Jars: Make No Serial Number
Did Well Flow? No Reversed Out No

Drill Collar Length 313 I. D. 2.2 in.
Weight Pipe Length I. D. in.
Drill Pipe Length 2974 I. D. 3.8 in.
Test Tool Length 22 ft. Tool Size 4 1/2 in.
Anchor Length 36 ft. Size 5 1/2 in.
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: 1ST NO BLOW - FLUSHED AFTER 8 MEN (1/4 to 1/2" in bucket)
2ND - NO BLOW

Recovered 3' ft. of Drilling Mud 60,000 ppm-Chlorides P# 8.0
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of



Remarks:

Time Set Packer(s) 5:40 AM P.M. Time Started Off Bottom 7:00 AM P.M. Maximum Temperature 106 degrees
Initial Hydrostatic Pressure (A) 1849 P.S.I.
Initial Flow Period Minutes 20 (B) 91 P.S.I. to (C) 101 P.S.I.
Initial Closed In Period Minutes 20 (D) 345 P.S.I.
Final Flow Period Minutes 20 (E) 101 P.S.I. to (F) 101 P.S.I.
Final Closed In Period Minutes 20 (G) 111 P.S.I.
Final Hydrostatic Pressure (H) 1839 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] 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 2-13-80 Test Ticket No. 4955  
 Recorder No. 10266 Capacity 4650 Location 3320 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1891 KB Well Temperature 166 °F

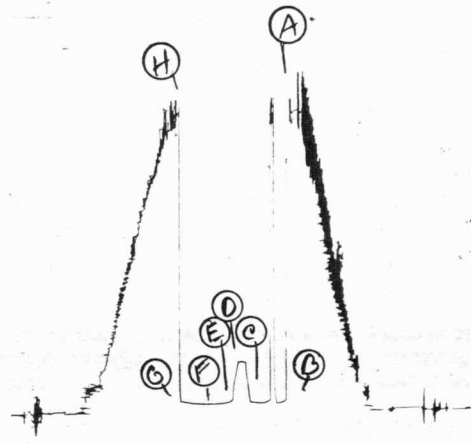
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1816</u> P.S.I.	Open Tool	<u>5:40 P.M.</u>	
B First Initial Flow Pressure	<u>70</u> P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>54</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>15</u> Mins.
D Initial Closed-in Pressure	<u>300</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>75</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>18</u> Mins.
F Second Final Flow Pressure	<u>49</u> P.S.I.			
G Final Closed-in Pressure	<u>66</u> P.S.I.			
H Final Hydrostatic Mud	<u>1813</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>5</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>70</u>	<u>0</u>	<u>54</u>	<u>49</u>
P 2	<u>54</u> <i>Mushed Tool</i>	<u>3</u>	<u>56</u>	<u>45</u>
P 3		<u>6</u>	<u>61</u>	<u>49</u>
P 4	<u>56</u>	<u>9</u>	<u>225</u>	<u>53</u>
P 5	<u>54</u>	<u>12</u>	<u>303</u>	<u>57</u>
P 6		<u>15</u>	<u>300</u>	<u>61</u>
P 7		<u>18</u>		<u>66</u>
P 8		<u>21</u>		
P 9		<u>24</u>		
P 10		<u>27</u>		
P 11		<u>30</u>		
P 12		<u>33</u>		
P 13		<u>36</u>		
P 14		<u>39</u>		
P 15		<u>42</u>		
P 16		<u>45</u>		
P 17		<u>48</u>		
P 18		<u>51</u>		
P 19		<u>54</u>		
P 20		<u>57</u>		
		<u>60</u>		

10204  
#4955

TK# 4955  
I



Company Petroleum Energy, Inc. Lease & Well No. Burmeister "A" #2  
 Elevation 1891 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 4955  
 Date 2-13-80 Sec. 2 Twp. 17S Range 11W County Barton State Kansas  
 Test Approved by Ken Hamlin Western Representative Darrell Claphan

Formation Test No. 2 Interval Tested from 3293 ft. to 3329 ft. Total Depth 3329 ft.  
 Packer Depth 3288 ft. Size 6 3/4 in. Packer Depth 3293 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) 3320 ft. Recorder Number 10266 Cap. 4650  
 Bottom Recorder Depth (Outside) 3323 ft. Recorder Number 6233 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drlg. Drill Collar Length 313 I. D. 2.2 in.  
 Mud Type Starch -Gel Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 10.4 Water Loss 18.0 cc. Drill Pipe Length 2974 I. D. 3.8 in.  
 Chlorides 62,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 36 ft. Size 5 1/2 in.  
 Did Well Flow? NO Reversed Out - 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 in.

Blow: No blow on initial flow period, flushed tool after 8 minutes (1/4" to 1/2" in bucket). No blow on final flow period.

Recovered 3 ft. of drilling mud (60,000 PPM Chlorides- PH 8.0)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

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

Time Set Packer(s) 5:40 ~~A.M.~~ P.M. Time Started Off Bottom 7:00 ~~A.M.~~ P.M. Maximum Temperature 106  
 Initial Hydrostatic Pressure ..... (A) 1816 P.S.I.  
 Initial Flow Period ..... Minutes 20 (B) 70 P.S.I. to (C) 54 P.S.I.  
 Initial Closed In Period ..... Minutes 15 (D) 300 P.S.I.  
 Final Flow Period ..... Minutes 20 (E) 75 P.S.I. to (F) 49 P.S.I.  
 Final Closed In Period ..... Minutes 18 (G) 66 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1813 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2/13/80 Recorder No. 10266 Capacity 4650 Test Ticket No. 4955  
 Clock No. ----- Elevation 1891 Kelly Bushing Location 3320 Ft. 106  
 Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1816 P.S.I.	Open Tool	5:40P	
B. First Initial Flow Pressure	70 P.S.I.	First Flow Pressure	20 Mins.	20 Mins.
C. First Final Flow Pressure	54 P.S.I.	Initial Closed-in Pressure	20 Mins.	15 Mins.
D. Initial Closed-in Pressure	300 P.S.I.	Second Flow Pressure	20 Mins.	20 Mins.
E. Second Initial Flow Pressure	75 P.S.I.	Final Closed-in Pressure	20 Mins.	18 Mins.
F. Second Final Flow Pressure	49 P.S.I.			
G. Final Closed-in Pressure	66 P.S.I.			
H. Final Hydrostatic Mud	1813 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: 5 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: 6 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>70</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>49</u>
P 2 <u>5</u>	<u>54</u>	<u>3</u>	<u>56</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>45</u>
P 3 <u>10</u>	<u>flushed tool</u>	<u>6</u>	<u>61</u>	<u>10</u>	<u>52</u>	<u>6</u>	<u>49</u>
P 4 <u>15</u>	<u>56</u>	<u>9</u>	<u>225</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>53</u>
P 5 <u>20</u>	<u>54</u>	<u>12</u>	<u>303</u>	<u>20</u>	<u>49</u>	<u>12</u>	<u>57</u>
P 6 _____	_____	<u>15</u>	<u>300</u>	_____	_____	<u>15</u>	<u>61</u>
P 7 _____	_____	_____	_____	_____	_____	<u>18</u>	<u>66</u>
P 8 _____	_____	_____	_____	_____	_____	_____	_____
P 9 _____	_____	_____	_____	_____	_____	_____	_____
P10 _____	_____	_____	_____	_____	_____	_____	_____
P11 _____	_____	_____	_____	_____	_____	_____	_____
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4956

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

Elevation 1891 KB Formation ARBUCKLE Eff. Pay Ft.

District GREAT BEND Date 2/14/80 Customer Order No.

COMPANY NAME PETROLEUM ENERGY, Inc.

ADDRESS SUITE 710 120 BUILDING WICHITA KS 67202

LEASE AND WELL NO. BURMEISTER 2A COUNTY BARTON STATE KS Sec. 2 Twp 17 Rge 11W

Mail Invoice To SAME AS ABOVE No. Copies Requested 5

Co. Name Address Mail Charts To SAME AS ABOVE No. Copies Requested 57

Address

Formation Test No. 3 Interval Tested from 3292 ft. to 3338 ft. Total Depth 3338 ft.

Packer Depth 3287 ft. Size 6 3/4 in. Packer Depth 3292 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) 3328 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 3331 ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor WHITE + ELTS Drill Collar Length 313 I. D. 2.2 in.

Mud Type STARA SALT GEL Viscosity 46 Weight Pipe Length I. D. in.

Weight 10.3 Water Loss 11.0 cc. Drill Pipe Length I. D. in.

Chlorides 63,000 P.P.M. Test Tool Length 22' ft. Tool Size 4 1/2 in.

Jars: Make NO Serial Number Anchor Length 46' 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.

Blow: 1ST FLOW - GOOD (6") BUILDING TO STRONG AFTER 5 MIN. (12")

2ND FLOW - STRONG BLOW THROUGHOUT (12")

Recovered 220' ft. of VSOCM

Recovered 360' ft. of SOCMW 38,000 ppm Chlorides P# 6.4

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:05 AM P.M. Time Started Off Bottom 7:35 AM P.M. Maximum Temperature 115°

Initial Hydrostatic Pressure (A) 1832 P.S.I.

Initial Flow Period Minutes 45 (B) 176 P.S.I. to (C) 293 P.S.I.

Initial Closed In Period Minutes 30 (D) 971 P.S.I.

Final Flow Period Minutes 45 (E) 340 P.S.I. to (F) 375 P.S.I.

Final Closed In Period Minutes 30 (G) 983 P.S.I.

Final Hydrostatic Pressure (H) 1751 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 Hamlin Signature of Customer or his authorized representative

Western Representative Danell Clapham

FEB 17 1980

Thank you

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$500.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, and TOTAL (\$500.00).

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2-14-80 Test Ticket No. 4956  
 Recorder No. 10266 Capacity 4650 Location 3328 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1871 KB Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1816</u>	P.S.I.	<u>5:05</u> A M	
B First Initial Flow Pressure	<u>181</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>291</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>970</u>	P.S.I.	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>338</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>366</u>	P.S.I.		
G Final Closed-in Pressure	<u>978</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1751</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: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 8 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

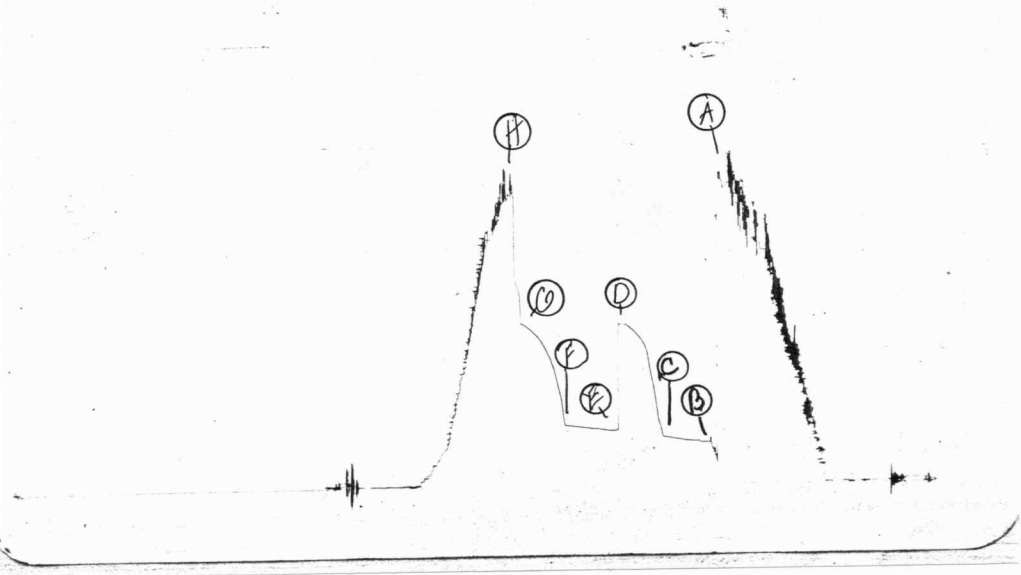
**Final Shut-In**  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>181</u>	0	<u>291</u>	0	<u>338</u>	0	<u>366</u>
P 2	<u>251</u>	3	<u>397</u>	3	<u>331</u>	3	<u>561</u>
P 3	<u>255</u>	6	<u>556</u>	6	<u>335</u>	6	<u>675</u>
P 4	<u>263</u>	9	<u>687</u>	9	<u>344</u> <del>338</del>	9	<u>759</u>
P 5	<u>265</u>	12	<u>813</u>	12	<u>346</u> <del>343</del>	12	<u>813</u>
P 6	<u>272</u>	15	<u>867</u>	15	<u>352</u> <del>349</del>	15	<u>860</u>
P 7	<u>279</u>	18	<u>901</u>	18	<u>358</u> <del>355</del>	18	<u>895</u>
P 8	<u>283</u>	21	<u>928</u>	21	<u>362</u>	21	<u>921</u>
P 9	<u>287</u>	24	<u>951</u>	24	<u>366</u>	24	<u>949</u>
P10	<u>291</u>	27	<u>970</u>	27		27	<u>965</u>
P11		30	<u>970</u>	30		30	<u>978</u>
P12		33		33		33	
P13		36		36		36	
P14		39		39		39	
P15		42		42		42	
P16		45		45		45	
P17		48		48		48	
P18		51		51		51	
P19		54		54		54	
P20		57		57		57	
		60		60		60	

10266

4956

TKL# 4956  
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Company Petroleum Energy, Inc. Lease & Well No. Burmeister #2 "A"  
 Location 1891 Kelly Bushing Formation Arbuckle Effective Pay -- Ft. Ticket No. 4956  
 Date 2/14/80 Sec. 2 Twp. 17S Range 11W County Barton State Kansas

Test Approved by Ken Hamlin Western Representative Darrell Claphan

Formation Test No. 3 Interval Tested from 3292 ft. to 3338 ft. Total Depth 3338 ft.  
 Casing Depth 3287 ft. Size 6 3/4 in. Packer Depth 3292 ft. Size 6 3/4 in.  
 Casing Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3328 ft. Recorder Number 10266 Cap. 4650  
 Bottom Recorder Depth (Outside) 3331 ft. Recorder Number 6233 Cap. 4000  
 Flow Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drilling Co. Drill Collar Length 313 I. D. 2.2 in.  
 Mud Type starch-salt-gel Viscosity 46 Weight Pipe Length - I. D. - in.  
 Weight 10.3 Water Loss 11.0 cc. Drill Pipe Length - I. D. - in.  
 Chlorides 63,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.  
 Pumps: Make -- Serial Number - Anchor Length 46 ft. Size 5 1/2 in.  
 Mud 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 in.

Flow: First flow-good (6") building to strong after five minutes (12")  
Second flow-strong blow throughout (12")

Recovered 220 ft. of very slightly oil cut mud  
 Recovered 360 ft. of slightly oil cut muddy water 38,000 chlorides PH 6.4  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 5:05 ~~P.M.~~ A.M. Time Started Off Bottom 7:35 ~~P.M.~~ A.M. Maximum Temperature 115°  
 Initial Hydrostatic Pressure (A) 1816 P.S.I.  
 Initial Flow Period Minutes 45 (B) 181 P.S.I. to (C) 291 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 970 P.S.I.  
 Final Flow Period Minutes 40 (E) 338 P.S.I. to (F) 366 P.S.I.  
 Final Closed In Period Minutes 30 (G) 978 P.S.I.  
 Final Hydrostatic Pressure (H) 1751 P.S.I.

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

Date 2/14/80 Test Ticket No. 4956  
 Recorder No. 10266 Capacity 4650 Location 3328 Ft.  
 Clock No. ----- Elevation 1891 Kelly Bushing Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1816	P.S.I.	5:05A	M
B First Initial Flow Pressure	181	P.S.I.	45	Mins. 45 Mins.
C First Final Flow Pressure	291	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	970	P.S.I.	45	Mins. 40 Mins.
E Second Initial Flow Pressure	338	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	366	P.S.I.		
G Final Closed-in Pressure	978	P.S.I.		
H Final Hydrostatic Mud	1751	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>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	181	0	291	0	338	0	366
P 2	5	251	3	397	5	331	3	561
P 3	10	255	6	556	10	335	6	675
P 4	15	263	9	687	15	344	9	759
P 5	20	265	12	813	20	346	12	813
P 6	25	272	15	867	25	352	15	860
P 7	30	279	18	901	30	358	18	895
P 8	35	283	21	928	35	362	21	921
P 9	40	287	24	951	40	366	24	949
P10	45	291	27	970			27	965
P11			30	970			30	978
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								