

Company Petroleum Energy, Inc. Lease & Well No. #1 "A" Madden
 Elevation 1821 Ground Level Formation Lansing Effective Pay -- Ft. Ticket No. 17588
1826 Kelly Bushing
 Date 10/8/82 Sec. 22 Twp. 20S Range 10W County Rice State Kansas
 Test Approved by Michael J. Wreath Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 3129 ft. to 3160 ft. Total Depth 3160 ft.
 Packer Depth 3124 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3129 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3131 ft. Recorder Number 13271 Cap. 4400
 Bottom Recorder Depth (Outside) 3134 ft. Recorder Number 13221 Cap. 4450
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drilling Rig #2 Drill Collar Length 270 I. D. 2.2 in.
 Mud Type starch Viscosity 31 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss - cc. Drill Pipe Length 2838 I. D. 3.8 in.
 Chlorides 50,000 P.P.M. Test Tool Length 21 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 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Initial flow period weak blow building to fair blow two to six inches. Final flow period fair blow building to good blow - four to seven inches.

Recovered 240 ft. of gas in pipe
 Recovered 120 ft. of gas cut mud with few spots of oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:15 ~~P.M.~~ A.M. Time Started Off Bottom 7:45 ~~P.M.~~ A.M. Maximum Temperature 103°
 Initial Hydrostatic Pressure 1634 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 59 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period 45 Minutes (D) 163 P.S.I.
 Final Flow Period 30 Minutes (E) 71 P.S.I. to (F) 71 P.S.I.
 Final Closed In Period 45 Minutes (G) 164 P.S.I.
 Final Hydrostatic Pressure 1634 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 10/8/82

Recorder No. 13271

Test Ticket No. 17588

Clock No. -- Capacity 4400

Location 3131 Ft.

Elevation 1826 Kelly Bushing

Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1634	P.S.I.	5:15A	M
B First Initial Flow Pressure	59	P.S.I.	30	30
C First Final Flow Pressure	59	P.S.I.	45	45
D Initial Closed-in Pressure	163	P.S.I.	30	30
E Second Initial Flow Pressure	71	P.S.I.	45	45
F Second Final Flow Pressure	71	P.S.I.		
G Final Closed-in Pressure	164	P.S.I.		
H Final Hydrostatic Mud	1634	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: 15 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.

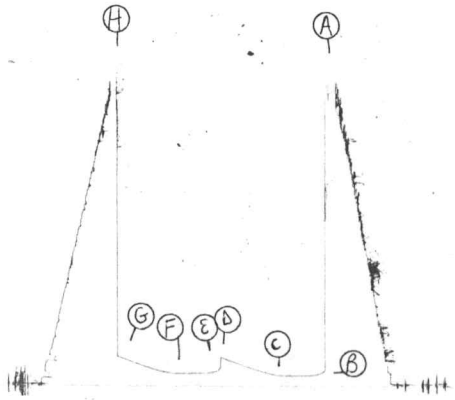
Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	59	0	71	0	71
P 2	5	3	59	3	71	3	71
P 3	10	6	59	6	71	6	73
P 4	15	9	59	9	71	9	76
P 5	20	12	59	12	71	12	81
P 6	25	15	59	15	71	15	86
P 7	30	18	59	18	71	18	93
P 8		21		21		21	100
P 9		24		24		24	108
P 10		27		27		27	116
P 11		30		30		30	124
P 12		33		33		33	132
P 13		36		36		36	140
P 14		39		39		39	148
P 15		42		42		42	156
P 16		45		45		45	164
P 17							
P 18							
P 19							
P 20							

TKT # 17588

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13271



Company Petroleum Energy, Inc. Lease & Well No. #1 "A" Madden
 Elevation 1821 Ground Level Formation Kansas City Effective Pay -- Ft. Ticket No. 17589
1826 Kelly Bushing
 Date 10/ 8 /82 Sec. 22 Twp 20S Range 10W County Rice State Kansas
 Test Approved by Michael J. Wreath Western Representative Ray Schwager

Formation Test No. 2 Interval Tested from 3196 ft. to 3244 ft. Total Depth 3244 ft.
 Packer Depth 3191 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3196 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3198 ft. Recorder Number 13271 Cap. 4400
 Bottom Recorder Depth (Outside) 3201 ft. Recorder Number 13221 Cap. 4450
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contract White & Ellis Drilling Rig #2 Drill Collar Length 270 I. D. 2.2 in.
 Mud Type starch Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 10 cc. Drill Pipe Length 2905 I. D. 3.8 in.
 Chlorides 55,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 48 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Initial flow period weak blow throughout - one and one half inch to two inches.
Final flow period very weak blow and died in twenty-five minutes.

Recovered 80 ft. of mud with few spots of oil on top of tool
 Recovered - ft. of Chlorides 53,000 ppm
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:20 ~~A.M.~~ P.M. Time Started Off Bottom 1:50 ~~A.M.~~ P.M. Maximum Temperature 104°
 Initial Hydrostatic Pressure (A) 1686 P.S.I.
 Initial Flow Period Minutes 30 (B) 72 P.S.I. to (C) 72 P.S.I.
 Initial Closed In Period Minutes 45 (D) 942 P.S.I.
 Final Flow Period Minutes 30 (E) 85 P.S.I. to (F) 85 P.S.I.
 Final Closed In Period Minutes 45 (G) 889 P.S.I.
 Final Hydrostatic Pressure (H) 1686 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/8/82 Test Ticket No. 17589
 Recorder No. 13271 Capacity 4400 Location 3198 Ft.
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1686	P.S.I.	11:20P	M
B. First Initial Flow Pressure	72	P.S.I.	30	30
C. First Final Flow Pressure	72	P.S.I.	45	45
D. Initial Closed-in Pressure	942	P.S.I.	30	30
E. Second Initial Flow Pressure	85	P.S.I.	45	45
F. Second Final Flow Pressure	85	P.S.I.		
G. Final Closed-in Pressure	889	P.S.I.		
H. Final Hydrostatic Mud	1686	P.S.I.		

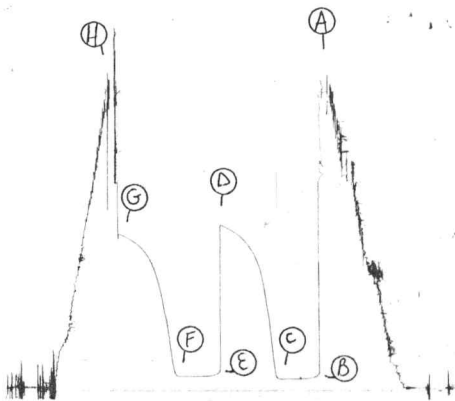
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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	72	0	72	0	85	0	85
P 2	5	72	3	219	5	85	3	102
P 3	10	72	6	414	10	85	6	219
P 4	15	72	9	550	15	85	9	376
P 5	20	72	12	656	20	85	12	486
P 6	25	72	15	728	25	85	15	592
P 7	30	72	18	779	30	85	18	671
P 8			21	817			21	730
P 9			24	845			24	771
P10			27	870			27	802
P11			30	890			30	824
P12			33	902			33	843
P13			36	912			36	860
P14			39	922			39	872
P15			42	932			42	883
P16			45	942			45	889
P17								
P18								
P19								
P20								

TKT # 17589

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3271



Company Petroleum Energy, Inc. Lease & Well No. #1 "A" Madden
 Elevation 1821 Ground Level Formation Kansas City Effective Pay -- Ft. Ticket No. 17590
1826 Kelly Bushing
 Date 10/9/82 Sec. 22 Twp. 20S Range 10W County Rice State Kansas
 Test Approved by Michael J. Wreath Western Representative Ray Schwager

Formation Test No. 3 Interval Tested from 3243 ft. to 3273 ft. Total Depth 3273 ft.
 Packer Depth 3238 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3243 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3245 ft. Recorder Number 13271 Cap. 4400
 Bottom Recorder Depth (Outside) 3248 ft. Recorder Number 13221 Cap. 4450
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drilling Rig #2 Drill Collar Length 270 I. D. 2.2 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.9 Water Loss 10.8 cc. Drill Pipe Length 2952 I. D. 3.8 in.
 Chlorides 57,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Initial flow period very weak blow and died in twenty-seven minutes. Final flow period no blow - flushed tool-got very weak blow.

Recovered 10 ft. of mud oil spotted
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 11:15 ~~P.M.~~ A.M. Time Started Off Bottom 1:00 ~~P.M.~~ A.M. Maximum Temperature 104°
 Initial Hydrostatic Pressure (A) 1708 P.S.I.
 Initial Flow Period Minutes 30 (B) 29 P.S.I. to (C) 29 P.S.I.
 Initial Closed In Period Minutes 42 (D) 65 P.S.I.
 Final Flow Period Minutes 10 (E) 49 P.S.I. to (F) 53 P.S.I.
 Final Closed In Period Minutes 21 (G) 66 P.S.I.
 Final Hydrostatic Pressure (H) 1708 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/9/82 Test Ticket No. 17590
 Recorder No. 13271 Capacity 4400 Location 3245 Ft.
 Clock No. --- Elevation 1826 Kelly Bushing Well Temperature 104 °F

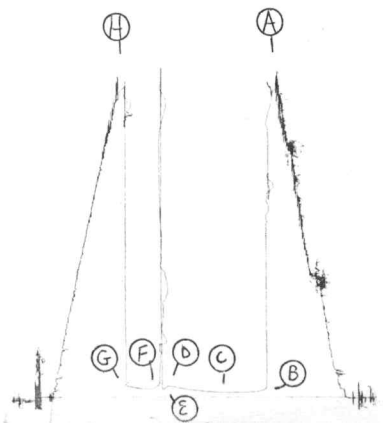
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1708</u>	P.S.I.	<u>11:15A</u>	<u>M</u>
B First Initial Flow Pressure	<u>29</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>29</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>65</u>	P.S.I.	<u>10</u>	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>49</u>	P.S.I.	<u>20</u>	<u>21</u> Mins.
F Second Final Flow Pressure	<u>53</u>	P.S.I.		
G Final Closed-in Pressure	<u>66</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1708</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a		of <u>14</u> mins. and a		of <u>2</u> mins. and a		of <u>7</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 Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>53</u>	
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>30</u>	<u>5</u>	<u>FLUSHED TOOL</u>	<u>3</u>	<u>49</u>	
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>31</u>	<u>10</u>	<u>53</u>	<u>6</u>	<u>49</u>	
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>33</u>			<u>9</u>	<u>50</u>	
P 5 <u>20</u>	<u>29</u>	<u>12</u>	<u>35</u>			<u>12</u>	<u>54</u>	
P 6 <u>25</u>	<u>29</u>	<u>15</u>	<u>37</u>			<u>15</u>	<u>58</u>	
P 7 <u>30</u>	<u>29</u>	<u>18</u>	<u>40</u>			<u>18</u>	<u>62</u>	
P 8 _____		<u>21</u>	<u>43</u>			<u>21</u>	<u>66</u>	
P 9 _____		<u>24</u>	<u>46</u>					
P10 _____		<u>27</u>	<u>49</u>					
P11 _____		<u>30</u>	<u>51</u>					
P12 _____		<u>33</u>	<u>55</u>					
P13 _____		<u>36</u>	<u>59</u>					
P14 _____		<u>39</u>	<u>63</u>					
P15 _____		<u>42</u>	<u>65</u>					
P16 _____								
P17 _____								
P18 _____								
P19 _____								
P20 _____								

TKT # 17590

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13291

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Company Petroleum Energy, Inc. Lease & Well No. #1 "A" Madden
 Elevation 1821 Ground Level Formation Arbuckle Effective Pay -- Ft. Ticket No. 17591
1826 Kelly Bushing
 Date 10/10/82 Sec. 22 Twp 20S Range 10W County Rice State Kansas
 Test Approved by Michael J. Wreath Western Representative Ray Schwager

Formation Test No. 4 Interval Tested from 3383 ft. to 3388 ft. Total Depth 3388 ft.
 Packer Depth 3378 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3383 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3367 ft. Recorder Number 13271 Cap. 4400
 Bottom Recorder Depth (Outside) 3370 ft. Recorder Number 13221 Cap. 4450
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drilling Rig #2 Drill Collar Length 270 I. D. 2.2 in.
 Mud Type starch Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 10 Water Loss 9 cc. Drill Pipe Length 3084 I. D. 3.8 in.
 Chlorides 59,000 P.P.M. Test Tool Length 29 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 5 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Initial flow period weak blow building to strong blow. Final flow period weak blow building to strong blow.

Recovered 5 ft. of oil
 Recovered 1170 ft. of salt water Chlorides 24,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 1:30 ~~AM~~ P.M. Time Started Off Bottom 3:30 ~~AM~~ P.M. Maximum Temperature 110°
 Initial Hydrostatic Pressure 1785 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 66 P.S.I. to (C) 314 P.S.I.
 Initial Closed In Period 27 Minutes (D) 1062 P.S.I.
 Final Flow Period 30 Minutes (E) 366 P.S.I. to (F) 506 P.S.I.
 Final Closed In Period 30 Minutes (G) 1053 P.S.I.
 Final Hydrostatic Pressure 1785 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 10/10/82 Test Ticket No. 17591
 Recorder No. 13271 Capacity 4400 Location 3367 Ft.
 Clock No. -- Elevation 1826 Kelly Bushing Well Temperature 110 °F

Point	Pressure			Time Given	Time Computed
				M	M
A Initial Hydrostatic Mud	1785	P.S.I.	Open Tool	1:30P	
B First Initial Flow Pressure	66	P.S.I.	First Flow Pressure	30	30
C First Final Flow Pressure	314	P.S.I.	Initial Closed-in Pressure	30	27
D Initial Closed-in Pressure	1062	P.S.I.	Second Flow Pressure	30	30
E Second Initial Flow Pressure	366	P.S.I.	Final Closed-in Pressure	30	30
F Second Final Flow Pressure	506	P.S.I.			
G Final Closed-in Pressure	1053	P.S.I.			
H Final Hydrostatic Mud	1785	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: 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.

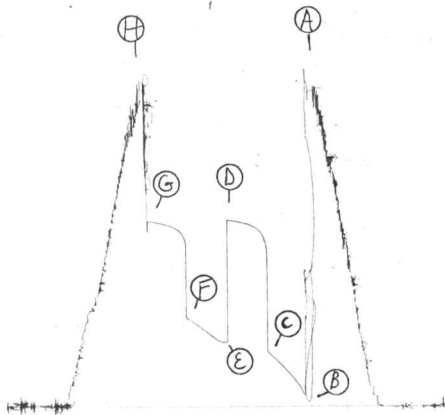
Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	66	0	314	0	366	0	506
P 2 5	126	3	993	5	373	3	980
P 3 10	176	6	1016	10	398	6	1005
P 4 15	216	9	1029	15	427	9	1018
P 5 20	259	12	1039	20	457	12	1028
P 6 25	296	15	1045	25	484	15	1036
P 7 30	314	18	1050	30	506	18	1040
P 8		21	1055			21	1044
P 9		24	1059			24	1047
P10		27	1062			27	1050
P11						30	1053
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 17591

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