



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO: 5886

Kelly Bushing

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

Elevation 1298 KB Formation Huntoon Eff. Pay Ft.

Header information including District (Augusta), Date (8-10-80), Customer Order No., COMPANY NAME (Pemberton & Exploration Inc.), ADDRESS (1700 Security Life Bldg, Denver Colo 80202), LEASE AND WELL NO. (Strait #17), COUNTY (Harrison), STATE (Ka), Sec. 17, Twp. 21S, Rge. 5E, Mail Invoice To, Co. Name, Address, No. Copies Requested (1), Mail Charts To, Address, No. Copies Requested (5).

Formation Test No. 1, Interval Tested from 2226 ft. to 2246 ft., Total Depth 2246 ft., Packer Depth 2226 ft., Size 6 3/4 in., Packer Depth 2221 ft., Size - in., Depth of Selective Zone Set -

Recorder information: Top Recorder Depth (Inside) 2231 ft., Recorder Number 1559, Cap. 4200 PSI, Bottom Recorder Depth (Outside) 2234 ft., Recorder Number 5666, Cap. 3920 PSI, Below Straddle Recorder Depth - ft., Recorder Number -, Cap. -

Drilling Contractor: E.D.C.O. Rig #46, Mud Type: Chem., Viscosity: 34, Weight: 9.6, Water Loss: 16 cc., Chlorides: 1500 P.P.M., Jars: Make No, Serial Number -, Did Well Flow? No, Reversed Out -, Drill Collar Length 232 in., I. D. 2 1/4 in., Weight Pipe Length - in., I. D. - in., Drill Pipe Length 2014 in., I. D. 2.8 in., Test Tool Length 45 ft., Tool Size 5 1/2 in., Anchor Length 20 ft., Size 5 1/2 in., 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 H in.

Blow: Initial flow Very weak final: Very weak no blow after 30 min

Recovered 1" of free oil, Recovered 4 ft. of oil cyt mud, Recovered 10 ft. of mud, Recovered - ft. of -, Recovered - ft. of -

Remarks: on location 6:30 P.M. on bank 8:35 tid made up 9:30 P.M. on bank 5:50 AM 8-10-80 off location 6:45

Time Set Packer(s) 11:45 P.M. 8-9-80, Time Started Off Bottom 3:00 A.M. 8-10-80, Maximum Temperature 99, Initial Hydrostatic Pressure (A) 1342 P.S.I., Initial Flow Period (B) 4 P.S.I. to (C) 4 P.S.I., Initial Closed In Period (D) 45 P.S.I., Final Flow Period (E) 60 P.S.I. to (F) 29 P.S.I., Final Closed In Period (G) 60 P.S.I., Final Hydrostatic Pressure (H) 1183 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: Daniel Fredlund, Signature of Customer or his authorized representative

Western Representative: Fred A. Klaus

FIELD INVOICE

Field Invoice items: Open Hole Test \$550.00, Misrun \$, Straddle Test \$, Jars \$, Selective Zone \$, Safety Joint \$50.00, Standby \$, Evaluation \$, Extra Packer \$, Circ. Sub. \$, Mileage \$37.50, Fluid Sampler \$, Extra Charts \$, TOTAL \$637.50

WESTERN TESTING CO., INC.

Pressure Data

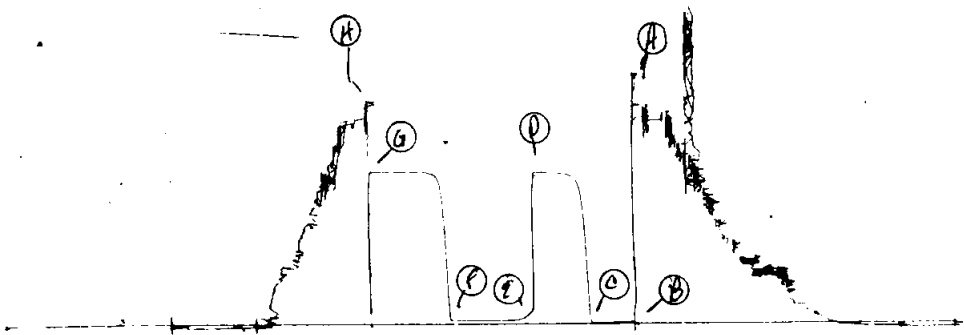
Date 8-10-80 Test Ticket No. 5886
 Recorder No. 1559 Capacity 4500 Location 2231 Ft.
 Clock No. _____ Elevation 1298 KB Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1340</u> P.S.I.	Open Tool	<u>11:45 P.M.</u>	
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>8</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>818</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	833 P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>21</u> P.S.I.			
G Final Closed-in Pressure	<u>820</u> P.S.I.			
H Final Hydrostatic Mud	<u>1183</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>8</u>	<u>0</u>	<u>8</u>	<u>0</u>	833	<u>0</u>	<u>21</u>
P 2 <u>5</u>		<u>3</u>	<u>111</u>	<u>5</u>	<u>31</u>	<u>3</u>	<u>249</u>
P 3 <u>10</u>		<u>6</u>	<u>389</u>	<u>10</u>	<u>21</u>	<u>6</u>	<u>527</u>
P 4 <u>15</u>		<u>9</u>	<u>604</u>	<u>15</u>		<u>9</u>	<u>727</u>
P 5 <u>20</u>		<u>12</u>	<u>748</u>	<u>20</u>		<u>12</u>	<u>795</u>
P 6 <u>25</u>		<u>15</u>	<u>783</u>	<u>25</u>		<u>15</u>	<u>808</u>
P 7 <u>30</u>	<u>8</u>	<u>18</u>	<u>797</u>	<u>30</u>		<u>18</u>	<u>814</u>
P 8 <u>35</u>		<u>21</u>	<u>804</u>	<u>35</u>		<u>21</u>	<u>819</u> 819
P 9 <u>40</u>		<u>24</u>	<u>810</u>	<u>40</u>		<u>24</u>	<u>818</u>
P10 <u>45</u>		<u>27</u>	<u>812</u>	<u>45</u>		<u>27</u>	<u>819</u>
P11 <u>50</u>		<u>30</u>	<u>816</u>	<u>50</u>		<u>30</u>	<u>820</u>
P12 <u>55</u>		<u>33</u>	<u>816</u>	<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>	<u>817</u>	<u>60</u>	<u>21</u>	<u>36</u>	
P14 _____		<u>39</u>	<u>817</u>	<u>65</u>		<u>39</u>	
P15 _____		<u>42</u>	<u>818</u>	<u>70</u>		<u>42</u>	
P16 _____		<u>45</u>	<u>818</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>	<u>820</u>

JK # 5886
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Company Pendleton Land & Exploration, Inc. Lease & Well No. Strait #17
 Elevation 1298 Kelly Bushing Hunton Formation Effective Pay --- Ft. Ticket No. 5886
 Date 8/10/80 Sec. 17 Twp. 21S Range 5E County Marion State Kansas
 Test Approved by Daniel Fredlund Western Representative Fred G. Klaus

Formation Test No. 1 Interval Tested from 2226 ft. to 2246 ft. Total Depth 2246 ft.
 Packer Depth 2226 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2221 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2231 ft. Recorder Number 1559 Cap. 4200 PSI
 Bottom Recorder Depth (Outside) 2234 ft. Recorder Number 5666 Cap. 3950 PSI
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Edco Drlg. Rig #6 Drill Collar Length 232 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 34 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 16 cc. Drill Pipe Length 2014 I. D. 2.8 in.
 Chlorides 1,500 P.P.M. Test Tool Length 45 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 20 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 XH in.

Blow: Initial flow very weak; final flow very weak, no blow after thirty minutes.

Recovered 1" ft. of free oil
 Recovered 4 ft. of oil cut mud
 Recovered 10 ft. of mud
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 11:45 ~~A.M.~~ P.M. 8-9-80 Time Started Off Bottom 3:00 ~~A.M.~~ P.M. 8-10-80 Maximum Temperature 99°
 Initial Hydrostatic Pressure (A) 1340 P.S.I.
 Initial Flow Period Minutes 30 (B) 8 P.S.I. to (C) 8 P.S.I.
 Initial Closed In Period Minutes 45 (D) 818 P.S.I.
 Final Flow Period Minutes 60 (E) 33 P.S.I. to (F) 21 P.S.I.
 Final Closed In Period Minutes 60 (G) 820 P.S.I.
 Final Hydrostatic Pressure (H) 1183 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-80 Test Ticket No. 5886
 Recorder No. 1559 Capacity 4200 Location 2231 Ft.
 Clock No. --- Elevation 1298 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1340</u> P.S.I.	Open Tool	<u>11:45</u> P. M.	
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>8</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>818</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>33</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>21</u> P.S.I.			
G Final Closed-in Pressure	<u>820</u> P.S.I.			
H Final Hydrostatic Mud	<u>1183</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>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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>8</u>	<u>0</u>	<u>8</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>21</u>	
P 2	<u>8</u>	<u>3</u>	<u>111</u>	<u>3</u>	<u>31</u>	<u>3</u>	<u>249</u>	
P 3	<u>8</u>	<u>6</u>	<u>389</u>	<u>6</u>	<u>21</u>	<u>6</u>	<u>527</u>	
P 4	<u>8</u>	<u>9</u>	<u>604</u>	<u>9</u>	<u>21</u>	<u>9</u>	<u>727</u>	
P 5	<u>8</u>	<u>12</u>	<u>748</u>	<u>12</u>	<u>21</u>	<u>12</u>	<u>794</u>	
P 6	<u>8</u>	<u>15</u>	<u>783</u>	<u>15</u>	<u>21</u>	<u>15</u>	<u>808</u>	
P 7	<u>8</u>	<u>18</u>	<u>797</u>	<u>18</u>	<u>21</u>	<u>18</u>	<u>814</u>	
P 8		<u>21</u>	<u>804</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>817</u>	
P 9		<u>24</u>	<u>810</u>	<u>24</u>	<u>21</u>	<u>24</u>	<u>818</u>	
P10		<u>27</u>	<u>812</u>	<u>27</u>	<u>21</u>	<u>27</u>	<u>819</u>	
P11		<u>30</u>	<u>816</u>	<u>30</u>	<u>21</u>	<u>30</u>	<u>820</u>	
P12		<u>33</u>	<u>816</u>	<u>33</u>	<u>21</u>	<u>33</u>	<u>820</u>	
P13		<u>36</u>	<u>817</u>	<u>36</u>	<u>21</u>	<u>36</u>	<u>820</u>	
P14		<u>39</u>	<u>817</u>			<u>39</u>	<u>820</u>	
P15		<u>42</u>	<u>818</u>			<u>42</u>	<u>820</u>	
P16		<u>45</u>	<u>818</u>			<u>45</u>	<u>820</u>	
P17						<u>48</u>	<u>820</u>	
P18						<u>51</u>	<u>820</u>	
P19						<u>54</u>	<u>820</u>	
P20						<u>57</u>	<u>820</u>	
						<u>60</u>	<u>820</u>	



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No: 5887

OK

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

Elevation 1298 KB Formation Hutton Eff. Pay _____ Ft.

District Augusta, Ka Date 8-10-80 Customer Order No. _____

COMPANY NAME Pendleton OIL & EXPLORATION INC.

ADDRESS 1700 Security Left Bldg Denver Colo 80202

LEASE AND WELL NO. Strait #17 COUNTY Monroe STATE Ka Sec. 17 Twp. 21S Rge. 5E

Mail Invoice To _____ Co. Name Same Address _____ No. Copies Requested 1

Mail Charts To _____ Co. Name Same Address _____ No. Copies Requested 5

Formation Test No. 2 Interval Tested from 2236 ft. to 2247 ft. Total Depth 2247 ft.
Packer Depth 2236 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2235 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2240 ft. Recorder Number 1559 Cap. 4200 PSI
Bottom Recorder Depth (Outside) 2243 ft. Recorder Number 5666 Cap. 4200 PSI
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Edco #6 Drill Collar Length 232 I. D. 2 1/4 in.
Mud Type Cham Viscosity 37 Weight Pipe Length _____ I. D. _____ in.
Weight 9.6 Water Loss 15.2 cc. Drill Pipe Length 1949 I. D. 2 1/8 in.
Chlorides 1700 P.P.M. Test Tool Length 36 ft. Tool Size 5 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 11 ft. Size 5 1/2 in.
Did Well Flow? _____ 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 XH in.

Blow: Strong throughout test.

Recovered 121 ft. of very slightly speckled muddy water • 44 Resistivity @ 96°F
Recovered 90 ft. of water
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: on location 9:45 AM on hook 10:10 Picked up tool 11:30 off location 5:45

Time Set Packer(s) 12:25 P.M. Time Started Off Bottom 3:10 P.M. Maximum Temperature 109
Initial Hydrostatic Pressure (A) 1183 P.S.I.
Initial Flow Period (B) 30 Minutes (C) 25 P.S.I. to (C) 232 P.S.I.
Initial Closed In Period (D) 45 Minutes (D) 918 P.S.I.
Final Flow Period (E) 60 Minutes (E) 390 P.S.I. to (F) 529 P.S.I.
Final Closed In Period (G) 60 Minutes (G) 856 P.S.I.
Final Hydrostatic Pressure (H) 1172 P.S.I.

COMPANY TERMS

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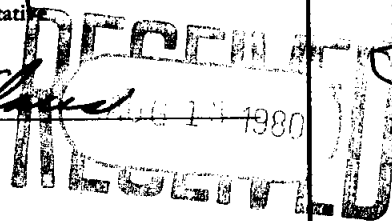
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Daniel Fredlund
Signature of Customer or his authorized representative

Western Representative Fred H. Klaus

FIELD INVOICE

Open Hole Test	\$ 550.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$ 50.00
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$ 30.00
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
TOTAL	\$ 630.00



WESTERN TESTING CO., INC.

Pressure Data

Date 8-10-80 Recorder No. 1559 Capacity 4200 Location 2240 Ft.
 Clock No. _____ Elevation 1298 KB Well Temperature 109 °F

Test Ticket No. 5887

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1186</u>	P.S.I.	<u>12:25 P.M.</u>	
B First Initial Flow Pressure	<u>42</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>222</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>827</u>	P.S.I.	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>278</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>510</u>	P.S.I.		
G Final Closed-in Pressure	<u>827</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1109</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: 13 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

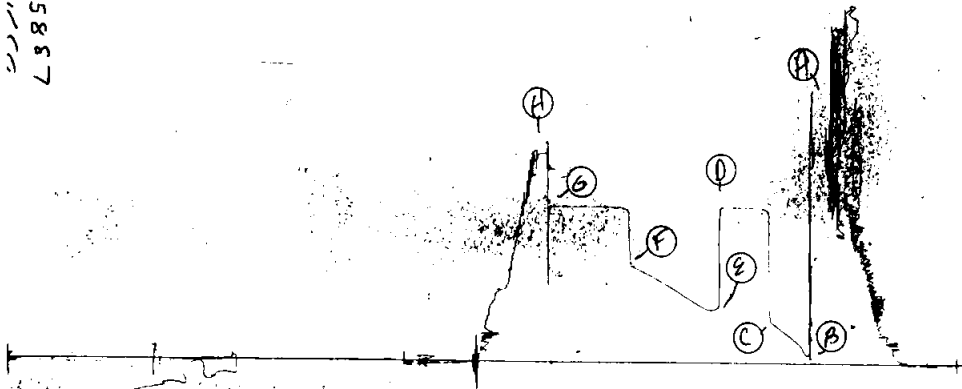
Second Flow Pressure
 Breakdown: 13 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 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	<u>42</u>	0	<u>222</u>	0	<u>278</u>	0	<u>510</u>
P 2 5	<u>73</u>	3	<u>808</u>	5	<u>278</u>	3	<u>797</u>
P 3 10	<u>115</u>	6	<u>819</u>	10	<u>286</u>	6	<u>820</u>
P 4 15	<u>144</u>	9	<u>824</u>	15	<u>307</u>	9	<u>824</u>
P 5 20	<u>173</u>	12	<u>825</u>	20	<u>330</u>	12	<u>827</u>
P 6 25	<u>199</u>	15	<u>826</u>	25	<u>351</u>	15	<u>827</u>
P 7 30	<u>222</u>	18	<u>827</u>	30	<u>374</u>	18	
P 8 35		21	<u>827</u>	35	<u>396</u>	21	
P 9 40		24	<u>827</u>	40	<u>418</u>	24	
P10 45		<u>27 27</u>		45	<u>439</u>	27	
P11 50		<u>30 30</u>		50	<u>458</u>	30	
P12 55		<u>33 33</u>		55	<u>477</u>	33	
P13 60		<u>36 36</u>		60	<u>496</u>	36	
P14		39	<u>827</u>	65 <u>510</u>	510	39	
P15		42		70	510	42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	<u>827</u>

DKT #5887
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Company Pendleton Land & Exploration, Inc. Lease & Well No. Strait #17
 Elevation 1298 Kelly Bushing Hunton Formation Effective Pay ---- Ft. Ticket No. 5887
 Date 8/10/80 Sec. 17 Twp. 21S Range 5E County Marion State Kansas
 Test Approved by Daniel Fredlund Western Representative Fred G. Klaus

Formation Test No. 2 Interval Tested from 2236 ft. to 2247 ft. Total Depth 2247 ft.
 Packer Depth 2236 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2235 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2240 ft. Recorder Number 1559 Cap. 4200 PSI
 Bottom Recorder Depth (Outside) 2243 ft. Recorder Number 5666 Cap. 4200 PSI
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Edco Drlg. Rig #6 Drill Collar Length 232 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 15.2 cc. Drill Pipe Length 1949 I. D. 2.8 in.
 Chlorides 1,700 P.P.M. Test Tool Length 36 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 11 ft. Size 5 1/2 in.
 Did Well Flow? - 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 XH in.

Blow: Strong throughout test.

Recovered 1121 ft. of very slightly oil speckled muddy water .44 Resistivity @ 96°F
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 12:25 A.M. P.M. Time Started Off Bottom 3:10 A.M. P.M. Maximum Temperature 109°
 Initial Hydrostatic Pressure (A) 1186 P.S.I.
 Initial Flow Period Minutes 30 (B) 42 P.S.I. to (C) 222 P.S.I.
 Initial Closed In Period Minutes 45 (D) 827 P.S.I.
 Final Flow Period Minutes 65 (E) 278 P.S.I. to (F) 510 P.S.I.
 Final Closed In Period Minutes 60 (G) 827 P.S.I.
 Final Hydrostatic Pressure (H) 1109 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-10-80 Test Ticket No. 5887
 Recorder No. 1559 Capacity 4200 Location 2240 Ft.
 Clock No. --- Elevation 1298 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1186</u>	P.S.I.	<u>12:25</u> P. M.	
B First Initial Flow Pressure	<u>42</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>222</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>827</u>	P.S.I.	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>278</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>510</u>	P.S.I.		
G Final Closed-in Pressure	<u>827</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1109</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: 13 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 13 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 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>42</u>	<u>0</u>	<u>222</u>	<u>0</u>	<u>278</u>	<u>0</u>	<u>510</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>808</u>	<u>5</u>	<u>278</u>	<u>3</u>	<u>797</u>
P 3 <u>10</u>	<u>115</u>	<u>6</u>	<u>818</u>	<u>10</u>	<u>286</u>	<u>6</u>	<u>820</u>
P 4 <u>15</u>	<u>144</u>	<u>9</u>	<u>824</u>	<u>15</u>	<u>307</u>	<u>9</u>	<u>824</u>
P 5 <u>20</u>	<u>173</u>	<u>12</u>	<u>825</u>	<u>20</u>	<u>330</u>	<u>12</u>	<u>827</u>
P 6 <u>25</u>	<u>199</u>	<u>15</u>	<u>826</u>	<u>25</u>	<u>351</u>	<u>15</u>	<u>827</u>
P 7 <u>30</u>	<u>222</u>	<u>18</u>	<u>827</u>	<u>30</u>	<u>374</u>	<u>18</u>	<u>827</u>
P 8		<u>21</u>	<u>827</u>	<u>35</u>	<u>396</u>	<u>21</u>	<u>827</u>
P 9		<u>24</u>	<u>827</u>	<u>40</u>	<u>418</u>	<u>24</u>	<u>827</u>
P10		<u>27</u>	<u>827</u>	<u>45</u>	<u>439</u>	<u>27</u>	<u>827</u>
P11		<u>30</u>	<u>827</u>	<u>50</u>	<u>458</u>	<u>30</u>	<u>827</u>
P12		<u>33</u>	<u>827</u>	<u>55</u>	<u>477</u>	<u>33</u>	<u>827</u>
P13		<u>36</u>	<u>827</u>	<u>60</u>	<u>496</u>	<u>36</u>	<u>827</u>
P14		<u>39</u>	<u>827</u>	<u>65</u>	<u>510</u>	<u>39</u>	<u>827</u>
P15						<u>42</u>	<u>827</u>
P16						<u>45</u>	<u>827</u>
P17						<u>48</u>	<u>827</u>
P18						<u>51</u>	<u>827</u>
P19						<u>54</u>	<u>827</u>
P20						<u>57</u>	<u>827</u>
						<u>60</u>	<u>827</u>



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO: 6069

Kelly Bashing.

Elevation KB 1298 Formation HUNTON Eff. Pay Ft.

District AUGUSTA Date 8-12-80 Customer Order No.

COMPANY NAME PENDLETON LAND & Explorations Inc.

ADDRESS 1700 Security Life Bldg Denver Colo 80202

LEASE AND WELL NO. STRAIT #17 COUNTY MARION STATE KANS. Sec. 17 Twp 21 Rge 5 E

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 2249 ft. to 2281 ft. Total Depth 2300 ft.
Packer Depth 2249 ft. Size 6 3/4 in. Packer Depth 2281 ft. Size 6 3/4 in.
Packer Depth 2244 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2257 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 2260 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth 2290 ft. Recorder Number 42 Cap. 4000

Drilling Contractor EDCO Rig #6 Drill Collar Length 231.64 I. D. 2 1/4 in.
Mud Type Chem Viscosity 72 Weight Pipe Length I. D. in.
Weight 9.8 Water Loss 14.6 cc. Drill Pipe Length 2003 I. D. 2.7 in.
Chlorides 1100 P.P.M. Test Tool Length 73 ft. Tool Size 4 1/2 OD in.
Jars: Make Serial Number Anchor Length 32 ft. Size 4 1/2 OD in.
Did Well Flow? No Reversed Out Yes 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 x 1 1/2 in.

Blow: Strong to very weak @ 30 minutes

Recovered 1920 ft. of Saltwater 5.0R - steady @ 94°
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

On location 2:30 AM 8-12-8 Pick up tools 9:30 AM Job complete @ 5:00 AM 8-12-80

Time Set	Packer(s)	Time Started Off Bottom	Maximum Temperature
	<u>NOON 12:00 A.M.</u>	<u>2:00 P.M.</u>	<u>103</u>
Initial Hydrostatic Pressure	(A) <u>1130</u>	P.S.I.	
Initial Flow Period	Minutes <u>30</u>	(B) <u>750</u>	P.S.I. to (C) <u>855</u> P.S.I.
Initial Closed In Period	Minutes <u>45</u>	(D) <u>855</u>	P.S.I.
Final Flow Period	Minutes <u>15</u>	(E) <u>855</u>	P.S.I. to (F) <u>855</u> P.S.I.
Final Closed In Period	Minutes <u>30</u>	(G) <u>855</u>	P.S.I.
Final Hydrostatic Pressure	(H) <u>1110</u>	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 Daniel Fredlund
Signature of Customer or his authorized representative

Western Representative Norman Alb - Allen Edgington

FIELD INVOICE

Open Hole Test	\$ <u>550.00</u>
Misrun	\$ <u> </u>
Straddle Test	\$ <u>250.00</u>
Jars	\$ <u> </u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u>50.00</u>
Standby	\$ <u> </u>
Evaluation	\$ <u> </u>
Extra Packer	\$ <u>200.00</u>
Circ. Sub.	\$ <u> </u>
Mileage	\$ <u>37.50</u>
Fluid Sampler	\$ <u> </u>
Extra Charts	\$ <u> </u>
TOTAL	\$ <u>1087.50</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 8-12-80 Test Ticket No. 6069
 Recorder No. 3354 Capacity 4200 Location 2257 Ft.
 Clock No. _____ Elevation 1298 XB Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1162</u>	P.S.I.	<u>12:00 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>751</u>	P.S.I.	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>854</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>863</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>863</u>	P.S.I.	<u>30</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>863</u>	P.S.I.		
G Final Closed-in Pressure	<u>863</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1114</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: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

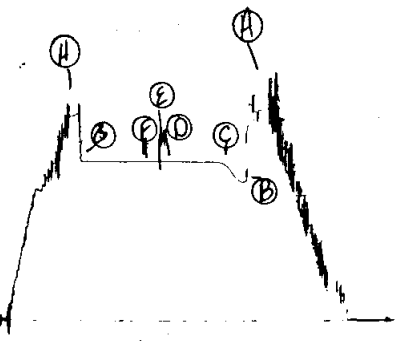
Second Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>751</u>	<u>0</u>	<u>854</u>	<u>0</u>	<u>863</u>
P 2	<u>5</u>	<u>3</u>	<u>757</u>	<u>3</u>	<u>856</u>	<u>3</u>	
P 3	<u>10</u>	<u>6</u>	<u>793</u>	<u>6</u>	<u>857</u>	<u>6</u>	
P 4	<u>15</u>	<u>9</u>	<u>840</u>	<u>9</u>	<u>859</u>	<u>9</u>	
P 5	<u>20</u>	<u>12</u>	<u>854</u>	<u>12</u>	<u>860</u>	<u>12</u>	
P 6	<u>25</u>	<u>15</u>		<u>15</u>	<u>861</u>	<u>15</u>	
P 7	<u>30</u>	<u>18</u>		<u>18</u>	<u>861</u>	<u>18</u>	
P 8	<u>35</u>	<u>21</u>		<u>21</u>	<u>862</u>	<u>21</u>	
P 9	<u>40</u>	<u>24</u>		<u>24</u>	<u>862</u>	<u>24</u>	
P10	<u>45</u>	<u>27</u>		<u>27</u>	<u>862</u>	<u>27</u>	
P11	<u>50</u>	<u>30</u>		<u>30</u>		<u>30</u>	
P12	<u>55</u>	<u>33</u>		<u>33</u>		<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>36</u>		<u>36</u>	
P14		<u>39</u>		<u>39</u>		<u>39</u>	
P15		<u>42</u>		<u>42</u>		<u>42</u>	
P16		<u>45</u>		<u>45</u>	<u>863</u>	<u>45</u>	<u>863</u>
P17		<u>48</u>		<u>48</u>		<u>48</u>	
P18		<u>51</u>		<u>51</u>		<u>51</u>	
P19		<u>54</u>		<u>54</u>		<u>54</u>	
P20		<u>57</u>		<u>57</u>		<u>57</u>	
		<u>60</u>		<u>60</u>		<u>60</u>	

Wt #6069

I



St # 6069

Below Straddle



Company Pendleton Land & Exploration, Inc. Lease & Well No. Strait #17
 Elevation 1298 Kelly Bushing Hunton Formation Effective Pay ----- Ft. Ticket No. 6069
 Date 8/12/80 Sec. 17 Twp. 21S Range 5E County Marion State Kansas
 Test Approved by Daniel Fredlund Western Representative Norman Allen-Allen Edgington

Formation Test No. 3 Interval Tested from 2249 ft. to 2281 ft. Total Depth 2300 ft.
 Packer Depth 2249 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2244 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2257 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 2260 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth 2290 ft. Recorder Number 42 Cap. 4000

Drilling Contractor Edco Drlg. Rig #6 Drill Collar Length 231.64 I. D. 2 1/4 ID in.
 Mud Type chemical Viscosity 72 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 14.6 cc. Drill Pipe Length 2003 I. D. 2.7 in.
 Chlorides 1,100 P.P.M. Test Tool Length 73 ft. Tool Size 4 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 32 ft. Size 4 1/2 OD in.
 Did Well Flow? No Reversed Out. Yes 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 to very weak blow; dead in thirty minutes.

Recovered 1920 ft. of salt water 5.0 Resistivity @ 94°F
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) NOON 12:00 A.M. P.M. Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 103°
 Initial Hydrostatic Pressure (A) 1162 P.S.I.
 Initial Flow Period Minutes 20 (B) 751 P.S.I. to (C) 854 P.S.I.
 Initial Closed In Period Minutes 45 (D) 863 P.S.I.
 Final Flow Period Minutes 15 (E) 863 P.S.I. to (F) 863 P.S.I.
 Final Closed In Period Minutes 45 (G) 863 P.S.I.
 Final Hydrostatic Pressure (H) 1114 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-12-80 Test Ticket No. 6069
 Recorder No. 3354 Capacity 4200 Location 2257 Ft.
 Clock No. ----- Elevation 1299 Kelly Bushing Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1162</u>	P.S.I.	<u>12:00</u> P. M.	
B First Initial Flow Pressure	<u>751</u>	P.S.I.	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>854</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>863</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>863</u>	P.S.I.	<u>30</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>863</u>	P.S.I.		
G Final Closed-in Pressure	<u>863</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1114</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>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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>751</u>	<u>0</u>	<u>854</u>	<u>0</u>	<u>863</u>	<u>0</u>	<u>863</u>	<u>0</u>
P 2	<u>757</u>	<u>3</u>	<u>856</u>	<u>3</u>	<u>863</u>	<u>3</u>	<u>863</u>	<u>3</u>
P 3	<u>793</u>	<u>6</u>	<u>857</u>	<u>6</u>	<u>863</u>	<u>6</u>	<u>863</u>	<u>6</u>
P 4	<u>840</u>	<u>9</u>	<u>859</u>	<u>9</u>	<u>863</u>	<u>9</u>	<u>863</u>	<u>9</u>
P 5	<u>854</u>	<u>12</u>	<u>860</u>	<u>12</u>		<u>12</u>	<u>863</u>	<u>12</u>
P 6		<u>15</u>	<u>861</u>	<u>15</u>		<u>15</u>	<u>863</u>	<u>15</u>
P 7		<u>18</u>	<u>861</u>	<u>18</u>		<u>18</u>	<u>863</u>	<u>18</u>
P 8		<u>21</u>	<u>862</u>	<u>21</u>		<u>21</u>	<u>863</u>	<u>21</u>
P 9		<u>24</u>	<u>862</u>	<u>24</u>		<u>24</u>	<u>863</u>	<u>24</u>
P10		<u>27</u>	<u>863</u>	<u>27</u>		<u>27</u>	<u>863</u>	<u>27</u>
P11		<u>30</u>	<u>863</u>	<u>30</u>		<u>30</u>	<u>863</u>	<u>30</u>
P12		<u>33</u>	<u>863</u>	<u>33</u>		<u>33</u>	<u>863</u>	<u>33</u>
P13		<u>36</u>	<u>863</u>	<u>36</u>		<u>36</u>	<u>863</u>	<u>36</u>
P14		<u>39</u>	<u>863</u>	<u>39</u>		<u>39</u>	<u>863</u>	<u>39</u>
P15		<u>42</u>	<u>863</u>	<u>42</u>		<u>42</u>	<u>863</u>	<u>42</u>
P16		<u>45</u>	<u>863</u>	<u>45</u>		<u>45</u>	<u>863</u>	<u>45</u>
P17								
P18								
P19								
P20								