



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 8413

Kelly Bushine

Kennett City

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

Elevation 1965 KB Formation K.C. Eff. Pay Ft.

District Wakeeney Date 12-3-80 Customer Order No.

COMPANY NAME Pendelton Land and Exploration, Inc.

ADDRESS 23 Fauverness Way, Englewood, Co. 80112

LEASE AND WELL NO. Madden #1 COUNTY Ellis STATE Ks. Sec. 26 Twp. 15s Rge 18w

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3386 ft. to 3421 ft. Total Depth 3421 ft.

Packer Depth 3381 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3386 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set Top Recorder Depth (Inside) 3391 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 3394 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor R+W (Buffalo) Rig #7 Drill Collar Length 120 I. D. 2.26 in.

Mud Type Starch Viscosity 39 Weight Pipe Length 622 I. D. 3.4 in.

Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 2676 I. D. 3.8 in.

Chlorides 64,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.

Jars: Make Western Serial Number 410 Anchor Length 35 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Weak Blow Building to Fair Blow Initial Flow Period TO STRONG Blow By End of 2nd open Final Flow Period

Recovered 325 ft. of Muddy Salt Water - No show - (68,000 chlorides)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Hit Several Bridges on way to Bottom. Slid Tool 6' to Bottom after open.

Time On Location 12:00 A.M. Time Pick Up Tool 8:00 12-2-80 P.M. Time Off Location 8:30 A.M.

Time Set Packer(s) 12:42 P.M. Time Started Off Bottom 3:45 P.M. Maximum Temperature 107°

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

Initial Flow Period Minutes 15 (B) 70 P.S.I. to (C) 93 P.S.I.

Initial Closed In Period Minutes 45 (D) 1093 P.S.I.

Final Flow Period Minutes 60 (E) 101 P.S.I. to (F) 140 P.S.I.

Final Closed In Period Minutes 60 (G) 873 P.S.I.

Final Hydrostatic Pressure (H) 1816 P.S.I.

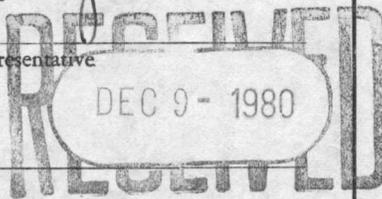
COMPANY TERMS

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 John Youle Signature of Customer or his authorized representative

Western Representative Ken Maffett



FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Jars (\$300.00), Mileage 44mi (\$33.00), TOTAL (\$883.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 12-3

Test Ticket No. 8413

Recorder No. 1564

Capacity 3150

Location 3391 Ft.

Clock No. _____ Elevation 1965 KB

Well Temperature 107 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1832</u> P.S.I.	<u>12:42 AM</u>	
B First Initial Flow Pressure	<u>81</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>88</u> P.S.I.	<u>45</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>1092</u> P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>110</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>141</u> P.S.I.		
G Final Closed-in Pressure	<u>868</u> P.S.I.		
H Final Hydrostatic Mud	<u>1792</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 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: 11 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>81</u>	0	<u>88</u>	0	<u>110</u>	0	<u>141</u>
P 2	<u>79</u>	3	<u>954</u>	5	<u>110</u>	3	<u>619</u>
P 3	<u>81</u>	6	<u>989</u>	10	<u>110</u>	6	<u>701</u>
P 4	<u>88</u>	9	<u>1013</u>	15	<u>113</u>	9	<u>728</u>
P 5		12	<u>1027</u>	20	<u>116</u>	12	<u>746</u>
P 6		15	<u>1040</u>	25	<u>119</u>	15	<u>762</u>
P 7		18	<u>1051</u>	30	<u>122</u>	18	<u>775</u>
P 8		21	<u>1058</u>	35	<u>126</u>	21	<u>785</u>
P 9		24	<u>1066</u>	40	<u>130</u>	24	<u>796</u>
P10		27	<u>1071</u>	45	<u>135</u>	27	<u>804</u>
P11		30	<u>1077</u>	50	<u>138</u>	30	<u>814</u>
P12		33	<u>1082</u>	55	<u>141</u>	33	<u>821</u>
P13		36	<u>1087</u>	60		36	<u>829</u>
P14		39	<u>1092</u>	65		39	<u>835</u>
P15		42		70		42	<u>840</u>
P16		45		75		45	<u>846</u>
P17		48		80		48	<u>851</u>
P18		51		85		51	<u>857</u>
P19		54		90		54	<u>862</u>
P20		57				57	<u>867</u>
		60				60	<u>868</u>

Company Pendleton Land & Exploration, Inc. Lease & Well No. Madden #1
 Elevation 1965/Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 8413
 Date 12/3/80 Sec. 26 Twp. 15S Range 18W County Ellis State Kansas
 Test Approved by John Youle Western Representative Ken Metzler

Formation Test No. 1 Interval Tested from 3386 ft. to 3421 ft. Total Depth 3421 ft.
 Packer Depth 3381 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3386 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3391 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 3394 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson (Buffalo) Rig #7 Drill Collar Length 120 I. D. 2.26 in.
 Mud Type starch Viscosity 39 Weight Pipe Length 622 I. D. 3.4 in.
 Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 2676 I. D. 3.8 in.
 Chlorides 64,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 410 Anchor Length 35 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow building to fair blow initial flow period. Weak blow building to strong blow by end of final flow period.

Recovered 325 ft. of muddy salt water : no show)68,000 ppm chlorides
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Hit several bridges on way to bottom. Slid tool six feet to bottom after opening.

Time Set Packer(s) 12:42 ~~P.M.~~ A.M. Time Started Off Bottom 3:45 ~~P.M.~~ A.M. Maximum Temperature 107°
 Initial Hydrostatic Pressure (A) 1832 P.S.I.
 Initial Flow Period Minutes 15 (B) 81 P.S.I. to (C) 88 P.S.I.
 Initial Closed In Period Minutes 39 (D) 1092 P.S.I.
 Final Flow Period Minutes 55 (E) 110 P.S.I. to (F) 141 P.S.I.
 Final Closed In Period Minutes 60 (G) 868 P.S.I.
 Final Hydrostatic Pressure (H) 1792 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/3/80 Test Ticket No. 8413
 Recorder No. 1564 Capacity 3150 Location 3391 Ft.
 Clock No. - Elevation 1965 Kelly Bushing Well Temperature 107 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1832</u> P.S.I.	Open Tool	<u>12:42A</u> M	
B First Initial Flow Pressure	<u>81</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>88</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>1092</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>110</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>141</u> P.S.I.			
G Final Closed-in Pressure	<u>868</u> P.S.I.			
H Final Hydrostatic Mud	<u>1792</u> P.S.I.			

PRESSURE BREAKDOWN

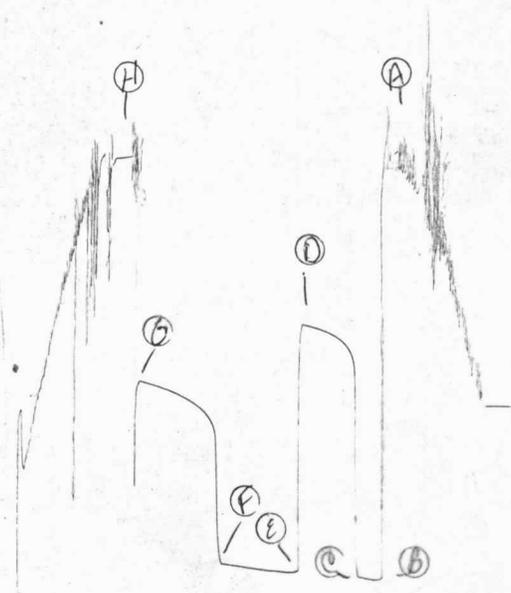
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
	final inc. of <u>0</u> Min.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>81</u>	<u>0</u>	<u>88</u>	<u>0</u>	<u>110</u>	<u>0</u>	<u>141</u>	
P 2 <u>5</u>	<u>79</u>	<u>3</u>	<u>954</u>	<u>5</u>	<u>110</u>	<u>3</u>	<u>619</u>	
P 3 <u>10</u>	<u>81</u>	<u>6</u>	<u>989</u>	<u>10</u>	<u>110</u>	<u>6</u>	<u>701</u>	
P 4 <u>15</u>	<u>88</u>	<u>9</u>	<u>1013</u>	<u>15</u>	<u>113</u>	<u>9</u>	<u>728</u>	
P 5 _____		<u>12</u>	<u>1027</u>	<u>20</u>	<u>116</u>	<u>12</u>	<u>746</u>	
P 6 _____		<u>15</u>	<u>1040</u>	<u>25</u>	<u>119</u>	<u>15</u>	<u>762</u>	
P 7 _____		<u>18</u>	<u>1051</u>	<u>30</u>	<u>122</u>	<u>18</u>	<u>775</u>	
P 8 _____		<u>21</u>	<u>1058</u>	<u>35</u>	<u>126</u>	<u>21</u>	<u>785</u>	
P 9 _____		<u>24</u>	<u>1066</u>	<u>40</u>	<u>130</u>	<u>24</u>	<u>796</u>	
P10 _____		<u>27</u>	<u>1071</u>	<u>45</u>	<u>135</u>	<u>27</u>	<u>804</u>	
P11 _____		<u>30</u>	<u>1077</u>	<u>50</u>	<u>138</u>	<u>30</u>	<u>814</u>	
P12 _____		<u>33</u>	<u>1082</u>	<u>55</u>	<u>141</u>	<u>33</u>	<u>821</u>	
P13 _____		<u>36</u>	<u>1087</u>			<u>36</u>	<u>829</u>	
P14 _____		<u>39</u>	<u>1092</u>			<u>39</u>	<u>835</u>	
P15 _____						<u>42</u>	<u>840</u>	
P16 _____						<u>45</u>	<u>846</u>	
P17 _____						<u>48</u>	<u>851</u>	
P18 _____						<u>51</u>	<u>857</u>	
P19 _____						<u>54</u>	<u>862</u>	
P20 _____						<u>57</u>	<u>867</u>	
						<u>60</u>	<u>868</u>	

1564

8413

JK # 8413

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO:

8414

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

Elevation 1965 KB Formation Arbuckle Eff. Pay Ft.

District Wakeency Date 12-4-80 Customer Order No.

COMPANY NAME Pendleton Land + Exploration, Inc.

ADDRESS 23 Inverness Way Englewood, Co. 80112

LEASE AND WELL NO. Madden #1 COUNTY Ellis STATE KS Sec. 26 Twp 15s Rge 18w

Mail Invoice To Same Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3498 ft. to 3541 ft. Total Depth 3541 ft.

Packer Depth 3493 ft. Size 6 3/4 in. Packer Depth 3498 ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3532 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 3535 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth Recorder Number Cap.

Drilling Contractor Buffalo Rig #7 Drill Collar Length 120 I. D. 2.26 in.

Mud Type Starch Viscosity 46 Weight Pipe Length 622 I. D. 3.4 in.

Weight 10.0 Water Loss ? cc. Drill Pipe Length 2803 I. D. 3.8 in.

Chlorides 70,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.

Jars Make Western Serial Number 410 Anchor Length 43 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Weak Blow 1st Open. Dead on 2nd Open. Flushed Tool 15 min into 2nd Flow - Surge then dead.

Recovered 40 ft. of Drilling Mud - NO SHOW

Remarks: Slid Tool 7' TO Bottom after Open Hit Solid Bridges at 1 1/2 stands + 9 1/2 stands off Bottom.

Time On Location 5:00 AM P.M. Time Pick Up Tool 6:00 AM P.M. Time Off Location 2:30 AM P.M.

Time Set Packer(s) 8:27 AM P.M. Time Started Off Bottom 10:30 AM P.M. Maximum Temperature 106 degrees

Initial Hydrostatic Pressure (A) 1952 P.S.I.

Initial Flow Period Minutes 15 (B) 70 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period Minutes 45 (D) 272 P.S.I.

Final Flow Period Minutes 30 (E) 70 P.S.I. to (F) 78 P.S.I.

Final Closed In Period Minutes 30 (G) 202 P.S.I.

Final Hydrostatic Pressure (H) 1936 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.

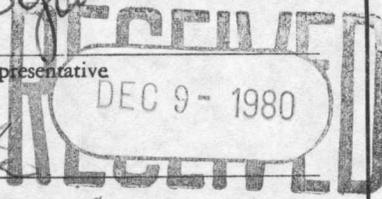
Test Approved By Ken Metzler Signature of Customer or his authorized representative

Western Representative Ken Metzler

Thank You!

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Jars (\$300.00), Extra Packer, and TOTAL (\$850.00).



WESTERN TESTING CO., INC.
Pressure Data

Date 12-4 Test Ticket No. 8414
 Recorder No. 1564 Capacity 3150 Location 3532 Ft.
 Clock No. _____ Elevation 1965 KB Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1957</u>	P.S.I.	<u>8:27</u> P _M	
B First Initial Flow Pressure	<u>88</u>	P.S.I.	<u>15</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>70</u>	P.S.I.	<u>45</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>268</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>93</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>79</u>	P.S.I.		
G Final Closed-in Pressure	<u>199</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1957</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>48</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>6</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>88</u>	0	<u>70</u>	0	<u>93</u>	0	<u>79</u>
P 2	<u>78</u>	3	<u>78</u>	5	<u>78</u>	3	<u>79</u>
P 3	<u>71</u>	6	<u>87</u>	10	<u>75</u>	6	<u>84</u>
P 4	<u>70</u>	9	<u>102</u>	15	<u>73</u>	9	<u>91</u>
P 5	<u>70</u>	12	<u>118</u>	20	<u>Flushed Tool</u>	12	<u>102</u>
P 6		15	<u>135</u>	25	<u>85</u>	15	<u>116</u>
P 7		18	<u>154</u>	30	<u>79</u>	18	<u>126</u>
P 8		21	<u>171</u>	35		21	<u>143</u>
P 9		24	<u>191</u>	40		24	<u>174</u>
P 10		27	<u>208</u>	45		27	<u>190</u>
P 11		30	<u>227</u>	50		30	<u>199</u>
P 12		33	<u>244</u>	55		33	
P 13		36	<u>260</u>	60		36	
P 14		39	<u>268</u>	65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

Company Pendleton Land & Exploration, Inc. Lease & Well No. Madden #1
 Elevation 1965 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 8414
 Date 12/4/80 Sec. 26 Twp. 15S Range 18W County Ellis State Kansas
 Test Approved by John Youle Western Representative Ken Metzler

Formation Test No. 2 Interval Tested from 3498 ft. to 3541 ft. Total Depth 3541 ft.
 Packer Depth 3493 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3498 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3532 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 3535 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Buffalo Drlg. Rig #7 Drill Collar Length 120 I. D. 2.26 in.
 Mud Type starch Viscosity 46 Weight Pipe Length 622 I. D. 3.4 in.
 Weight 10.0 Water Loss ? cc. Drill Pipe Length 2803 I. D. 3.8 in.
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 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow initial flow period. Dead on final flow period. Flushed tool fifteen minutes into final flow priod; surge, then dead.

Recovered 40 ft. of drilling mud; no show.
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 8:27 ~~AM~~ P.M. Time Started Off Bottom 10:30 ~~AM~~ P.M. Maximum Temperature 106°
 Initial Hydrostatic Pressure (A) 1957 P.S.I.
 Initial Flow Period Minutes 20 (B) 88 P.S.I. to (C) 70 P.S.I.
 Initial Closed In Period Minutes 39 (D) 268 P.S.I.
 Final Flow Period Minutes 30 (E) 93 P.S.I. to (F) 79 P.S.I.
 Final Closed In Period Minutes 30 (G) 199 P.S.I.
 Final Hydrostatic Pressure (H) 1957 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/4/80 Test Ticket No. 8414
 Recorder No. 1564 Capacity 3150 Location 3532 Ft.
 Clock No. --- Elevation 1965 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1957</u> P.S.I.	Open Tool	<u>8:27P</u> M	
B First Initial Flow Pressure	<u>88</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>70</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>268</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>93</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>79</u> P.S.I.			
G Final Closed-in Pressure	<u>199</u> P.S.I.			
H Final Hydrostatic Mud	<u>1957</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: 13 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

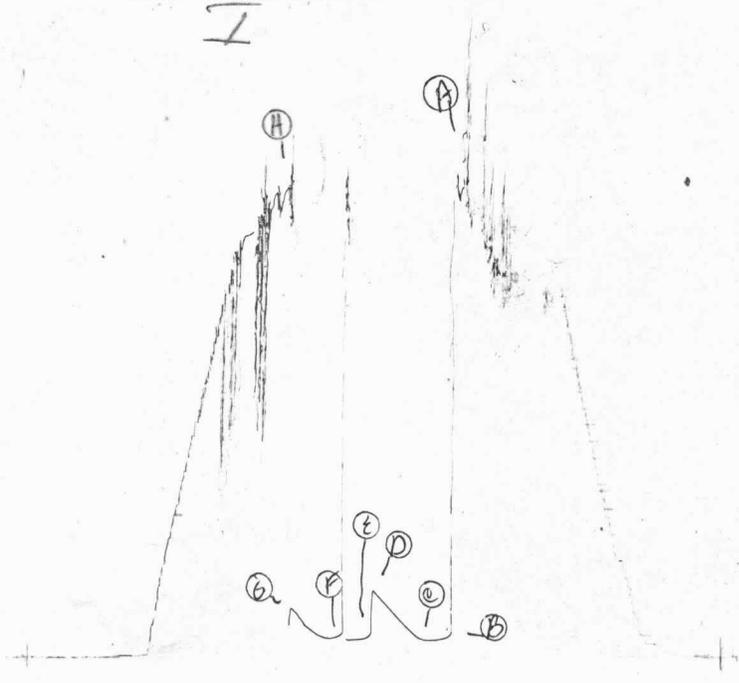
Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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>88</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>93</u>	<u>0</u>	<u>79</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>78</u>	<u>5</u>	<u>87</u>	<u>3</u>	<u>79</u>
P 3 <u>10</u>	<u>71</u>	<u>6</u>	<u>87</u>	<u>10</u>	<u>75</u>	<u>6</u>	<u>84</u>
P 4 <u>15</u>	<u>70</u>	<u>9</u>	<u>102</u>	<u>15</u>	<u>73</u>	<u>9</u>	<u>91</u>
P 5 <u>20</u>	<u>70</u>	<u>12</u>	<u>118</u>	<u>20</u>	<u>FLUSHED TOOL</u>	<u>12</u>	<u>102</u>
P 6 <u>2</u>		<u>15</u>	<u>135</u>	<u>25</u>	<u>85</u>	<u>15</u>	<u>116</u>
P 7		<u>18</u>	<u>154</u>	<u>30</u>	<u>79</u>	<u>18</u>	<u>126</u>
P 8		<u>21</u>	<u>171</u>			<u>21</u>	<u>143</u>
P 9		<u>24</u>	<u>191</u>			<u>24</u>	<u>174</u>
P10		<u>27</u>	<u>208</u>			<u>27</u>	<u>190</u>
P11		<u>30</u>	<u>227</u>			<u>30</u>	<u>199</u>
P12		<u>33</u>	<u>244</u>			<u>33</u>	
P13		<u>36</u>	<u>260</u>				
P14		<u>39</u>	<u>268</u>				
P15							
P16							
P17							
P18							
P19							
P20							

TKA # 8414
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1564
8414





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 8415

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

Elevation 1965 KB Formation Arbuckle Eff. Pay Ft.

District Wakeeney Date 12-6-80 Customer Order No.

COMPANY NAME Pendleton Land & Exploration, Inc.

ADDRESS 23 Inverness Way, Englewood, Co. 80112

LEASE AND WELL NO. Madden #1 COUNTY Ellis STATE KS Sec. 26 Twp. 15S Rge 18W

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

Mail Charts To Same Address No. Copies Requested 5

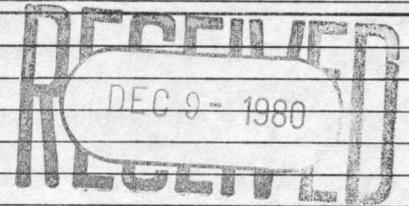
Formation Test No. 3 Interval Tested from 3538 ft. to 3556 ft. Total Depth 3556 ft. Packer Depth 3533 ft. Size 6 3/4 in. New Packer Depth 3538 ft. Size 6 3/4 in. Depth of Selective Zone Set

Top Recorder Depth (Inside) 3547 ft. Recorder Number 1564 Cap. 3150 Bottom Recorder Depth (Outside) 3550 ft. Recorder Number 2603 Cap. 4400 Below Straddle Recorder Depth

Drilling Contractor Buffalo Rig #7 Drill Collar Length 120 I. D. 2.26 in. Mud Type starch Viscosity 51 Weight Pipe Length 622 I. D. 3.4 in. Weight 10.0 Water Loss 9.6 cc. Drill Pipe Length 2834 I. D. 3.8 in. Chlorides 72,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in. Jars: Make western Serial Number 410 Anchor Length 18 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 Fk in.

Blow: Packer Failure

Recovered 275 ft. of Drilling Mud



Remarks: Time On Location 10:30 AM Time Pick Up Tool 2:15 PM Time Off Location 9:30 AM Time Set Packer(s) 4:27 PM Time Started Off Bottom 4:45 PM Maximum Temperature Initial Hydrostatic Pressure (A) 1986 P.S.I. Initial Flow Period (B) P.S.I. to (C) P.S.I. Initial Closed In Period (D) P.S.I. Final Flow Period (E) P.S.I. to (F) P.S.I. Final Closed In Period (G) P.S.I. Final Hydrostatic Pressure (H) 1856 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 John Youle Signature of Customer or his authorized representative

Western Representative Ken Metzler

Thank You!

FIELD INVOICE

Open Hole Test \$ Misrun \$ 300.00 Straddle Test \$ Jars \$ 300.00 Selective Zone \$ Safety Joint \$ 50.00 Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ Fluid Sampler \$ Extra Charts \$ Insurance \$ TOTAL \$ 650.00

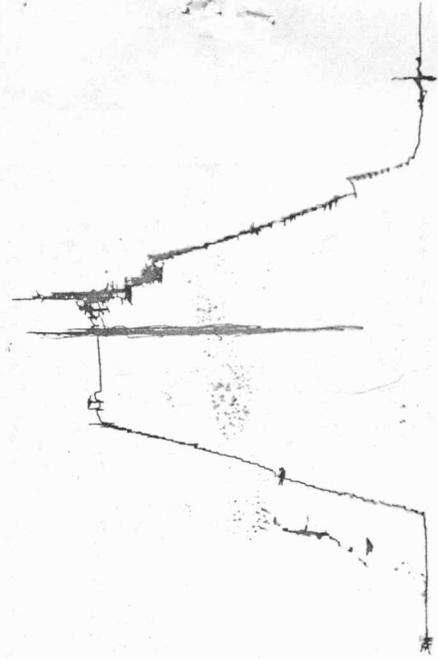
5148

5148 # 8415
T



2603
8415

5148 # 8415
0



Public

27

CC

Early

11/11/11

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Public

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Company Pendleton Land & Exploration, Inc. Lease & Well No. Madden #1
 Elevation 1965 Kelly Bushing Arbuckle Formation Effective Pay -- Ft. Ticket No. 8415
 Date 12/6/80 Sec. 26 Twp. 15S Range 18W County Ellis State Kansas
 Test Approved by John Youle Western Representative Ken Metzler

Formation Test No. 3 Interval Tested from 3538 ft. to 3556 ft. Total Depth 3556 ft.

Packer Depth 3533 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3538 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3547 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 3550 ft. Recorder Number 2603 Cap. 4400

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

Drilling Contractor Buffalo Drlg. Rig #7 Drill Collar Length 120 I. D. 2.26 in.

Mud Type starch Viscosity 51 Weight Pipe Length 622 I. D. 3.4 in.

Weight 10.0 Water Loss 9.6 cc. Drill Pipe Length 2834 I. D. 3.8 in.

Chlorides 72,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 410 Anchor Length 18 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Packer Failure.

Recovered 275 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

MISRUN

Remarks:

Time Set Packer(s) 4:27 A.M. P.M. Time Started Off Bottom 4:45 A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure (A) 1886 P.S.I.

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

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

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

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

Final Hydrostatic Pressure (H) 1856 P.S.I.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 8416

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

Elevation 1965 KB Formation Arbuckle Eff. Pay Ft.

District Wakeeney Date 12-4-80 Customer Order No.

COMPANY NAME Pendelton Land & Exploration, Inc.

ADDRESS 23 Inverness Way, Englewood, Co. 80112

LEASE AND WELL NO. Madden #1 COUNTY Ellis STATE Ks Sec. 26 Twp 15s Rge 18w

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 3544 ft. to 3556 ft. Total Depth 3556 ft.

Packer Depth 3539 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3544 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3549 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 3552 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Buffalo Reg #7 Drill Collar Length 120 I. D. 2.26 in.

Mud Type Starch Viscosity 55 Weight Pipe Length 622 I. D. 3.4 in.

Weight 9.9 Water Loss 10.0 cc. Drill Pipe Length 2834 I. D. 3.8 in.

Chlorides 68,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.

Jars: Make Western Serial Number 410 Anchor Length 12 ft. Size 5 1/2 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 FH in.

Blow: Weak Blow Building to very strong both opens they out fast

Recovered 2000 ft. of Muddy Salt Water - No Show - 48,000 chlorides

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid 7' TO Bottom after Tool opened. HIT 2 Solid Bridges 11-12 stands off Bottom

Time On Location 8:30 AM. Time Pick Up Tool 10:15 AM. Time Off Location 12:30 AM.

Time Set Packer(s) 2:27 AM. Time Started Off Bottom 4:40 PM. Maximum Temperature 110°

Initial Hydrostatic Pressure (A) 1824 P.S.I.

Initial Flow Period Minutes 25 (B) 335 P.S.I. to (C) 670 P.S.I.

Initial Closed In Period Minutes 45 (D) 1156 P.S.I.

Final Flow Period Minutes 30 (E) 732 P.S.I. to (F) 951 P.S.I.

Final Closed In Period Minutes 30 (G) 1141 P.S.I.

Final Hydrostatic Pressure (H) 1808 P.S.I.

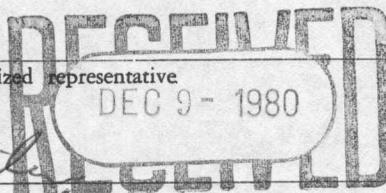
COMPANY TERMS

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 of Customer or his authorized representative

Western Representative



FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Misrun, Straddle Test, Jars (\$300.00), Selective Zone, Safety Joint (\$50.00), Standby, Evaluation, Extra Packer (\$200.00), Circ. Sub. (\$30.00), Mileage, Fluid Sampler, Extra Charts, Insurance, TOTAL (\$1130.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 12-7

Test Ticket No. 8416

Recorder No. 1564

Capacity 3150

Location 3549 Ft.

Clock No. _____ Elevation 1965 KB

Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1888</u>	P.S.I.	<u>2:27</u> A _M	
B First Initial Flow Pressure	<u>327</u>	P.S.I.	<u>25</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>659</u>	P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1149</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>729</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>947</u>	P.S.I.		
G Final Closed-in Pressure	<u>1133</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1854</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: 14 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	<u>327</u>	0	<u>659</u>	0	<u>729</u>	0	<u>947</u>
P 2 5	<u>430</u>	3	<u>1033</u>	5	<u>754</u>	3	<u>1065</u>
P 3 10	<u>531</u>	6	<u>1068</u>	10	<u>812</u>	6	<u>1085</u>
P 4 15	<u>615</u>	9	<u>1084</u>	15	<u>860</u>	9	<u>1096</u>
P 5 20	<u>659</u>	12	<u>1096</u>	20	<u>900</u>	12	<u>1106</u>
P 6 25		15	<u>1107</u>	25	<u>931</u>	15	<u>1112</u>
P 7 30		18	<u>1117</u>	30	<u>947</u>	18	<u>1119</u>
P 8 35		21	<u>1122</u>	35		21	<u>1123</u>
P 9 40		24	<u>1128</u>	40		24	<u>1126</u>
P10 45		27	<u>1131</u>	45		27	<u>1131</u>
P11 50		30	<u>1136</u>	50		30	<u>1133</u>
P12 55		33	<u>1139</u>	55		33	
P13 60		36	<u>1142</u>	60		36	
P14		39	<u>1145</u>	65		39	
P15		42	<u>1149</u>	70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company Pendleton Land & Exploration, Inc. Lease & Well No. Madden #1
 Elevation 1965 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 8416
 Date 12/7/80 Sec. 26 Twp 15S Range 18W County Ellis State Kansas
 Test Approved by John Youle Western Representative Ken Metzler

Formation Test No. 4 Interval Tested from 3544 ft. to 3556 ft. Total Depth 3556 ft.
 Packer Depth 3539 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3544 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3549 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 3552 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Buffalo Drlg. Rig #7 Drill Collar Length 120 I. D. 2.26 in.
 Mud Type starch Viscosity 55 Weight Pipe Length 622 I. D. 3.4 in.
 Weight 9.9 Water Loss 10.0 cc. Drill Pipe Length 2834 I. D. 3.8 in.
 Chlorides 68,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 410 Anchor Length 12 ft. Size 5 1/2 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 FH in.

Blow: Weak blow building to very strong throughout test.

Recovered 2000 ft. of muddy salt water; no show 48,000 ppm chlorides
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid seven feet to bottom after tool opened. Hit two solid bridges eleven-twelve stands off bottom.

Time Set Packer(s) 2:27 ~~P.M.~~ A.M. Time Started Off Bottom 4:40 ~~P.M.~~ A.M. Maximum Temperature 110°
 Initial Hydrostatic Pressure (A) 1888 P.S.I.
 Initial Flow Period Minutes 20 (B) 327 P.S.I. to (C) 659 P.S.I.
 Initial Closed In Period Minutes 42 (D) 1149 P.S.I.
 Final Flow Period Minutes 30 (E) 729 P.S.I. to (F) 947 P.S.I.
 Final Closed In Period Minutes 30 (G) 1133 P.S.I.
 Final Hydrostatic Pressure (H) 1854 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 12/7/80 Test Ticket No. 8416
 Recorder No. 1564 Capacity 3150 Location 3549 Ft.
 Clock No. --- Elevation 1965 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1888 P.S.I.	Open Tool	2:27A _M	
B First Initial Flow Pressure	327 P.S.I.	First Flow Pressure	25 Mins.	20 Mins.
C First Final Flow Pressure	659 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	1149 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	729 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	947 P.S.I.			
G Final Closed-in Pressure	1133 P.S.I.			
H Final Hydrostatic Mud	1854 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: 14 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.

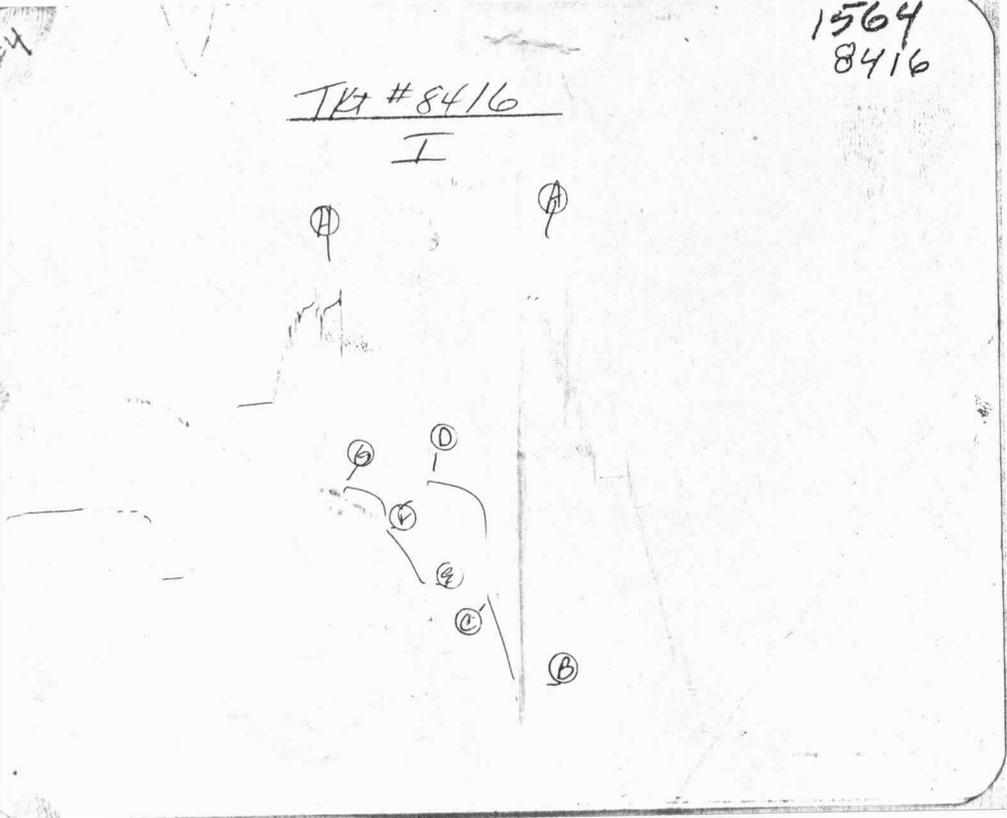
Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>327</u>	<u>0</u>	<u>659</u>	<u>0</u>	<u>729</u>	<u>0</u>	<u>927</u>
P 2 <u>5</u>	<u>430</u>	<u>3</u>	<u>1033</u>	<u>5</u>	<u>754</u>	<u>3</u>	<u>1065</u>
P 3 <u>10</u>	<u>531</u>	<u>6</u>	<u>1068</u>	<u>10</u>	<u>812</u>	<u>6</u>	<u>1085</u>
P 4 <u>15</u>	<u>615</u>	<u>9</u>	<u>1084</u>	<u>15</u>	<u>860</u>	<u>9</u>	<u>1096</u>
P 5 <u>20</u>	<u>659</u>	<u>12</u>	<u>1096</u>	<u>20</u>	<u>900</u>	<u>12</u>	<u>1106</u>
P 6 _____	_____	<u>15</u>	<u>1107</u>	<u>25</u>	<u>931</u>	<u>15</u>	<u>1112</u>
P 7 _____	_____	<u>18</u>	<u>1117</u>	<u>30</u>	<u>947</u>	<u>18</u>	<u>1119</u>
P 8 _____	_____	<u>21</u>	<u>1122</u>	_____	_____	<u>21</u>	<u>1123</u>
P 9 _____	_____	<u>24</u>	<u>1128</u>	_____	_____	<u>24</u>	<u>1126</u>
P10 _____	_____	<u>27</u>	<u>1131</u>	_____	_____	<u>27</u>	<u>1131</u>
P11 _____	_____	<u>30</u>	<u>1136</u>	_____	_____	<u>30</u>	<u>1133</u>
P12 _____	_____	<u>33</u>	<u>1139</u>	_____	_____	_____	_____
P13 _____	_____	<u>36</u>	<u>1142</u>	_____	_____	_____	_____
P14 _____	_____	<u>39</u>	<u>1145</u>	_____	_____	_____	_____
P15 _____	_____	<u>42</u>	<u>1149</u>	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

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8416

TKT #8416

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 8417

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

Elevation 1965 KBush Formation Arbuckle Eff. Pay Ft.

District Wakeenay Date 12-9/10-80 Customer Order No.

COMPANY NAME Pendleton Land & Exploration, Inc.

ADDRESS 23 Inverness Way Englewood, Co.

LEASE AND WELL NO. Madden #1 COUNTY Ellis STATE Ks. Sec. 26 Twp 15s Rge 18w

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 5 Interval Tested from 3574 ft. to 3580 ft. Total Depth 3596 ft. Packer Depth 3574 ft. Size 6 3/4 in. New Packer Depth 3580 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Top Recorder Depth (Inside) 3566 ft. Recorder Number 1564 Cap. 3150 Bottom Recorder Depth (Outside) 3569 ft. Recorder Number 2603 Cap. 4400 Below Straddle Recorder Depth 3596 ft. Recorder Number 41 Cap. ?

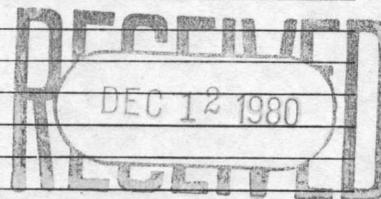
Drilling Contractor Buffalo Rig #7 Drill Collar Length 120 I. D. 2.26 in. Mud Type Starch Viscosity 63 Weight Pipe Length 622 I. D. 3.4 in. Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 2865 I. D. 3.8 in. Chlorides 76,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in. Jars: Make Western Serial Number 410 Anchor Length 6' Between ft. Size 5 1/2 in. Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak Blow Building to Strong Both Opens.

Recovered 835 ft. of Muddy Salt Water - 48,000 chlorides - NO SHOW

Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of

Remarks: Hit Bridge 12 Stands off Bottom Straddle Test - 6' Between Packers - 16' Tail Pipe



Time On Location 10:00 A.M. P.M. Time Pick Up Tool 1:30 A.M. P.M. Time Off Location 2:00 A.M. P.M.

Time Set Packer(s) 5:27 A.M. P.M. Time Started Off Bottom 8:30 A.M. P.M. Maximum Temperature 110°

Table with 8 rows (A-H) and 4 columns: Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure, and P.S.I. values.

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 [Signature] Signature of Customer or his authorized representative

Western Representative [Signature] Ken Metzger

Thank You!

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$550.00), Straddle Test (\$250.00), Jars (\$300.00), Safety Joint (\$50.00), and TOTAL (\$1150.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 12-9/10-80

Test Ticket No. 8417

Recorder No. 1564

Capacity 3150

Location 3566 Ft.

Clock No. _____

Elevation 1965 KB

Well Temperature 110 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1832</u>	P.S.I.
B First Initial Flow Pressure	<u>36</u>	P.S.I.
C First Final Flow Pressure	<u>135</u>	P.S.I.
D Initial Closed-in Pressure	<u>1160</u>	P.S.I.
E Second Initial Flow Pressure	<u>194</u>	P.S.I.
F Second Final Flow Pressure	<u>395</u>	P.S.I.
G Final Closed-in Pressure	<u>1159</u>	P.S.I.
H Final Hydrostatic Mud	<u>1819</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>5:27</u> A	M
First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 19 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>36</u>	<u>0</u>	<u>135</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>395</u>
P 2	<u>5</u>	<u>76</u>	<u>3</u>	<u>857</u>	<u>5</u>	<u>197</u>	<u>3</u>	<u>826</u>
P 3	<u>10</u>	<u>107</u>	<u>6</u>	<u>969</u>	<u>10</u>	<u>213</u>	<u>6</u>	<u>936</u>
P 4	<u>15</u>	<u>135</u>	<u>9</u>	<u>1019</u>	<u>15</u>	<u>235</u>	<u>9</u>	<u>983</u>
P 5	<u>20</u>		<u>12</u>	<u>1055</u>	<u>20</u>	<u>258</u>	<u>12</u>	<u>1014</u>
P 6	<u>25</u>		<u>15</u>	<u>1081</u>	<u>25</u>	<u>280</u>	<u>15</u>	<u>1036</u>
P 7	<u>30</u>		<u>18</u>	<u>1096</u>	<u>30</u>	<u>302</u>	<u>18</u>	<u>1055</u>
P 8	<u>35</u>		<u>21</u>	<u>1112</u>	<u>35</u>	<u>324</u>	<u>21</u>	<u>1071</u>
P 9	<u>40</u>		<u>24</u>	<u>1122</u>	<u>40</u>	<u>341</u>	<u>24</u>	<u>1084</u>
P10	<u>45</u>		<u>27</u>	<u>1130</u>	<u>45</u>	<u>358</u>	<u>27</u>	<u>1096</u>
P11	<u>50</u>		<u>30</u>	<u>1137</u>	<u>50</u>	<u>374</u>	<u>30</u>	<u>1106</u>
P12	<u>55</u>		<u>33</u>	<u>1144</u>	<u>55</u>	<u>389</u>	<u>33</u>	<u>1115</u>
P13	<u>60</u>		<u>36</u>	<u>1151</u>	<u>60</u>	<u>395</u>	<u>36</u>	<u>1123</u>
P14			<u>39</u>	<u>1156</u>	<u>65</u>		<u>39</u>	<u>1130</u>
P15			<u>42</u>	<u>1160</u>	<u>70</u>		<u>42</u>	<u>1136</u>
P16			<u>45</u>		<u>75</u>		<u>45</u>	<u>1142</u>
P17			<u>48</u>		<u>80</u>		<u>48</u>	<u>1149</u>
P18			<u>51</u>		<u>85</u>		<u>51</u>	<u>1153</u>
P19			<u>54</u>		<u>90</u>		<u>54</u>	<u>1156</u>
P20			<u>57</u>				<u>57</u>	<u>1159</u>
			<u>60</u>				<u>60</u>	

Company Pendleton Land & Exploration, Inc. Lease & Well No. Madden #1
 Elevation 1965 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 8417
 Date 12/9/80 Sec. 26 Twp. 15S Range 18W County Ellis State Kansas
 Test Approved by John Youle Western Representative Ken Metzler

Formation Test No. 5 Interval Tested from 3574 ft. to 3580 ft. Total Depth 3596 ft.
 Packer Depth 3574 ft. Size 6 3/4 in. New Packer Depth - ft. Size - in.
 Packer Depth 3580 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3566 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 3569 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth 3596 ft. Recorder Number 41 Cap. -

Drilling Contractor Buffalo Rig #7 Drill Collar Length 120 I. D. 2.26 in.
 Mud Type Starch Viscosity 63 Weight Pipe Length 622 I. D. 3.4 in.
 Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 2865 I. D. 3.8 in.
 Chlorides 76,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 410 Anchor Length 6' Between ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow building to strong throughout test.

Recovered 835 ft. of muddy salt water - no show Chlorides 48,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Hit bridge 12 stands off bottom. Straddle test 6 ft between packers - 16 ft. tail pipe

Time Set Packer(s) 5:27 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 110
 Initial Hydrostatic Pressure (A) 1832 P.S.I.
 Initial Flow Period Minutes 15 (B) 36 P.S.I. to (C) 135 P.S.I.
 Initial Closed In Period Minutes 42 (D) 1160 P.S.I.
 Final Flow Period Minutes 60 (E) 194 P.S.I. to (F) 395 P.S.I.
 Final Closed In Period Minutes 57 (G) 1159 P.S.I.
 Final Hydrostatic Pressure (H) 1819 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 12-9-80 Test Ticket No. 8417
 Recorder No. 1564 Capacity 3150 Location 3566 Ft.
 Clock No. - Elevation 1965 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1832</u> P.S.I.	Open Tool	<u>5:27A</u> M	
B First Initial Flow Pressure	<u>36</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>135</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1160</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>194</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>395</u> P.S.I.			
G Final Closed-in Pressure	<u>1159</u> P.S.I.			
H Final Hydrostatic Mud	<u>1819</u> P.S.I.			

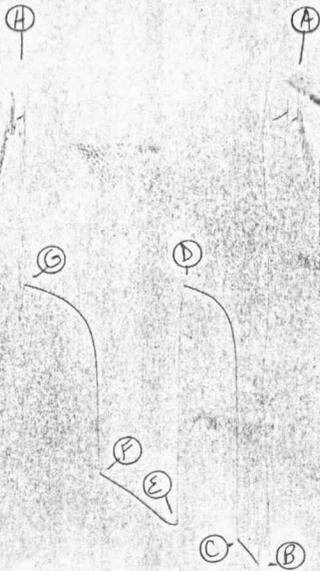
PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a 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>36</u>	<u>0</u>	<u>135</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>395</u>
P 2 <u>5</u>	<u>76</u>	<u>3</u>	<u>857</u>	<u>5</u>	<u>197</u>	<u>3</u>	<u>826</u>
P 3 <u>10</u>	<u>107</u>	<u>6</u>	<u>969</u>	<u>10</u>	<u>213</u>	<u>6</u>	<u>936</u>
P 4 <u>15</u>	<u>135</u>	<u>9</u>	<u>1019</u>	<u>15</u>	<u>235</u>	<u>9</u>	<u>983</u>
P 5 _____	_____	<u>12</u>	<u>1055</u>	<u>20</u>	<u>258</u>	<u>12</u>	<u>1014</u>
P 6 _____	_____	<u>15</u>	<u>1081</u>	<u>75</u>	<u>280</u>	<u>15</u>	<u>1036</u>
P 7 _____	_____	<u>18</u>	<u>1096</u>	<u>30</u>	<u>302</u>	<u>18</u>	<u>1055</u>
P 8 _____	_____	<u>21</u>	<u>1112</u>	<u>35</u>	<u>324</u>	<u>21</u>	<u>1071</u>
P 9 _____	_____	<u>24</u>	<u>1122</u>	<u>40</u>	<u>341</u>	<u>24</u>	<u>1084</u>
P10 _____	_____	<u>27</u>	<u>1130</u>	<u>45</u>	<u>358</u>	<u>27</u>	<u>1096</u>
P11 _____	_____	<u>30</u>	<u>1137</u>	<u>50</u>	<u>374</u>	<u>30</u>	<u>1106</u>
P12 _____	_____	<u>33</u>	<u>1144</u>	<u>55</u>	<u>389</u>	<u>33</u>	<u>1115</u>
P13 _____	_____	<u>36</u>	<u>1151</u>	<u>60</u>	<u>395</u>	<u>36</u>	<u>1123</u>
P14 _____	_____	<u>39</u>	<u>1156</u>	_____	_____	<u>39</u>	<u>1130</u>
P15 _____	_____	<u>42</u>	<u>1160</u>	_____	_____	<u>42</u>	<u>1136</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1142</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>1149</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1153</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1156</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1159</u>

TKT # 8417

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TKT # 8417
BELOW STRADDLE

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