



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 3546

Elevation 1185' B Formation Mudstone Eff. Pay — Ft.

District 4-15-80 Date 4/15/80 Customer Order No. —

COMPANY NAME Pendleton Land & Exploration Inc

ADDRESS 1700 Security Life Bldg Denver Colo 80202

LEASE AND WELL NO 1 COUNTY Clay STATE Co. Sec. 4 Twp 9S Rge 4E

Mail Invoice To Sam Sherbert #1 No. Copies Requested 1

Co. Name Address

Mail Charts To Same No. Copies Requested 5

Address

Formation Test No. 1 Interval Tested from 1832 ft. to 1992 ft. Total Depth 1992 ft.

Packer Depth 1832 ft. Size 5 1/2 in. Packer Depth — ft. Size — in.

Packer Depth 1827 ft. Size 5 1/2 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 1900 ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 1903 ft. Recorder Number 1551 Cap. 3200

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

Drilling Contractor Materi Cyl 44 Drill Collar Length 120 I. D. 2 in.

Mud Type Chen Viscosity 45 Weight Pipe Length — I. D. — in.

Weight 8.8 Water Loss 12.2 cc. Drill Pipe Length 168 I. D. 2.5 in.

Chlorides 3500 P.P.M. Test Tool Length 190 ft. Tool Size 4200 in.

Jars: Make WTS Serial Number 407 Anchor Length 160 ft. Size 4200 in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/21 in.

Main Hole Size 6 1/4 in. Tool Joint Size 3 1/2 in.

Blow: Strong diminishing to very weak at end of test

Recovered 1530 ft. of Slightly muddy saltwater { -8 Resistivity @ 70°F

Recovered — ft. of — { 10,000 PPM Chlorides

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: 165 miles from Augusta to location

Time Set Packer(s) 10:00 A.M. Time Started Off Bottom 1:00 A.M.

Initial Hydrostatic Pressure 855 P.S.I. Maximum Temperature 98

Initial Flow Period 30 Minutes (B) 190 P.S.I. to (C) 660 P.S.I.

Initial Closed In Period 30 Minutes (D) 725 P.S.I.

Final Flow Period 60 Minutes (E) 695 P.S.I. to (F) 725 P.S.I.

Final Closed In Period 60 Minutes (G) 725 P.S.I.

Final Hydrostatic Pressure 855 P.S.I. (H)

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 Perry A. Ward
Signature of Customer or his authorized representative

RECEIVED
APR 17 1980
RECEIVED

FIELD INVOICE

Open Hole Test \$ 500.00
Misrun \$ —
Straddle Test \$ —
Jars \$ 275.00
Selective Zone \$ —
Safety Joint \$ 35.00
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
810.00

WESTERN TESTING CO., INC.

Pressure Data

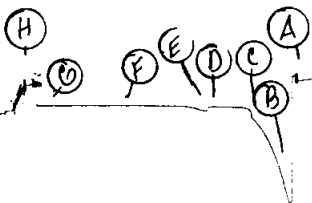
Date 4-15-80 Test Ticket No. 3546
 Order No. 10980 Capacity 4200 Location 1900
 Job No. 1185 KB Elevation 98 Well Temperature 98
 Unit Pressure Time Given 10:00 P M Time Computed 30 Mins. 30 Mins.
 Initial Hydrostatic Mud 866 P.S.I. Open Tool 30 Mins. 30 Mins.
 First Initial Flow Pressure 190 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 657 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 Initial Closed-in Pressure 719 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 Second Initial Flow Pressure 698 P.S.I. Final Closed-in Pressure 60 Mins. 66 Mins.
 Second Final Flow Pressure 730 P.S.I.
 Final Closed-in Pressure 734 P.S.I.
 Final Hydrostatic Mud 847 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</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 ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	190	0	657	0	698	0	730
2 5	282	3	709	5	702	3	730
3 10	404	6	715	10	713	6	731
4 15	500	9	715	15	721	9	732
5 20	574	12	717	20	723	12	733
6 25	628	15	719	25	726	15	734
7 30	657	18		30	726	18	
8 35		21		35	727	21	
9 40		24		40	728	24	
10 45		27		45	729	27	
11 50		30	719	50	729	30	
12 55		33		55	730	33	
13 60		36		60	730	36	
14		39		65		39	
15		42		70		42	
16		45		75		45	
17		48		80		48	
18		51		85		51	
19		54		90		54	
20		57				57	
		60				60	
						63	
						66	
							734

TKT # 3546
I

5
0
X
J



Company Pendleton Land & Exploration, Inc. Lease & Well No. Sherbert #1
 Elevation 1185 Kelly Bushing Mississippi Gilmore - Ft. Ticket No. 3546
 Date 4/15/80 Sec. 4 Twp. 9S Range 4E County Clay State Kansas
 Test Approved by Perry A. Hand Western Representative Norman Allen
 Formation Test No. 1 Interval Tested from 1832 ft. to 1992 ft. Total Depth 1992 ft.
 Packer Depth 1832 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
 Packer Depth 1827 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 1900 ft. Recorder Number 10980 Cap. 4200
 Bottom Recorder Depth (Outside) 1903 ft. Recorder Number 1561 Cap. 3200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Materi Exploration 44 Drill Collar Length 120 I. D. 2 in.
 Mud Type chemical Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 8.8 Water Loss 12.2 cc. Drill Pipe Length 168 I. D. 2.5 in.
 Chlorides 3,500 P.P.M. Test Tool Length 190 ft. Tool Size 4 1/2 OD in.
 Jars: Make WTC Serial Number 407 Anchor Length 160 ft. Size 4 1/2 OD in.
 Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6 1/2 in. Tool Joint Size 3 1/2 IF in.

Blow: Strong diminishing to very weak at end of test.

Recovered 1530 ft. of slightly muddy salt water (-8 resistivity @ 70°F
(10,000 chlorides ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:00 ~~A.M.~~ P.M. Maximum Temperature 98°
 Initial Hydrostatic Pressure (A) 866 P.S.I.
 Initial Flow Period Minutes 30 (B) 190 P.S.I. to (C) 657 P.S.I.
 Initial Closed In Period Minutes 30 (D) 719 P.S.I.
 Final Flow Period Minutes 60 (E) 698 P.S.I. to (F) 730 P.S.I.
 Final Closed In Period Minutes 66 (G) 734 P.S.I.
 Final Hydrostatic Pressure (H) 847 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/15/80 Recorder No. 10980 Capacity 4200 Test Ticket No. 3546
 Clock No. ---- Elevation 1185 Kelly Bushing Location 1900 Ft. 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	866	P.S.I.	10:00P	
B First Initial Flow Pressure	190	P.S.I.	30	30
C First Final Flow Pressure	657	P.S.I.	30	30
D Initial Closed-in Pressure	719	P.S.I.	60	60
E Second Initial Flow Pressure	698	P.S.I.	60	66
F Second Final Flow Pressure	730	P.S.I.		
G Final Closed-in Pressure	734	P.S.I.		
H Final Hydrostatic Mud	847	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</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	Press.	Point	Press.	Point	Press.	Point	Press.
Mins.		Minutes		Minutes		Minutes	
P 1 <u>0</u>	<u>190</u>	<u>0</u>	<u>657</u>	<u>0</u>	<u>698</u>	<u>0</u>	<u>730</u>
P 2 <u>5</u>	<u>282</u>	<u>3</u>	<u>709</u>	<u>5</u>	<u>702</u>	<u>3</u>	<u>730</u>
P 3 <u>10</u>	<u>404</u>	<u>6</u>	<u>715</u>	<u>10</u>	<u>713</u>	<u>6</u>	<u>731</u>
P 4 <u>15</u>	<u>500</u>	<u>9</u>	<u>715</u>	<u>15</u>	<u>721</u>	<u>9</u>	<u>732</u>
P 5 <u>20</u>	<u>574</u>	<u>12</u>	<u>717</u>	<u>20</u>	<u>723</u>	<u>12</u>	<u>733</u>
P 6 <u>25</u>	<u>628</u>	<u>15</u>	<u>719</u>	<u>25</u>	<u>726</u>	<u>15</u>	<u>734</u>
P 7 <u>30</u>	<u>657</u>	<u>18</u>	<u>719</u>	<u>30</u>	<u>726</u>	<u>18</u>	<u>734</u>
P 8		<u>21</u>	<u>719</u>	<u>35</u>	<u>727</u>	<u>21</u>	<u>734</u>
P 9		<u>24</u>	<u>719</u>	<u>40</u>	<u>728</u>	<u>24</u>	<u>734</u>
P10		<u>27</u>	<u>719</u>	<u>45</u>	<u>729</u>	<u>27</u>	<u>734</u>
P11		<u>30</u>	<u>719</u>	<u>50</u>	<u>729</u>	<u>30</u>	<u>734</u>
P12				<u>55</u>	<u>730</u>	<u>33</u>	<u>734</u>
P13				<u>60</u>	<u>730</u>	<u>36</u>	<u>734</u>
P14						<u>39</u>	<u>734</u>
P15						<u>42</u>	<u>734</u>
P16						<u>45</u>	<u>734</u>
P17						<u>48</u>	<u>734</u>
P18						<u>51</u>	<u>734</u>
P19						<u>54</u>	<u>734</u>
P20						<u>57</u>	<u>734</u>
						<u>60</u>	<u>734</u>
						<u>63</u>	<u>734</u>
						<u>66</u>	<u>734</u>