



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 18991

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

Elevation \_\_\_\_\_ Formation Lansing Eff. Pay \_\_\_\_\_ Ft.

District Pratt Date 5-26-83 Customer Order No. \_\_\_\_\_

COMPANY NAME Pendleton Land + Exploration Inc.

ADDRESS Denver Colo 80112 23 Inverness Way East

LEASE AND WELL NO. Penks #1 COUNTY Meade STATE KS Sec. 26 Twp. 30s Rge. 26w

Mail Invoice To Same #1 PENKA No. Copies Requested Reg

Co. Name Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4577 ft. to 4602 ft. Total Depth 4602 ft.

Packer Depth 4570 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 4577 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4592 ft. Recorder Number 11019 Cap. 4500

Bottom Recorder Depth (Outside) 4595 ft. Recorder Number 1559 Cap. 4200

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor H-30 #5 Drill Collar Length 480 I. D. 2.2 in.

Mud Type Chem Viscosity 40 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Weight 9.0 Water Loss 48 cc. Drill Pipe Length 4063 I. D. 3.8 in.

Chlorides 19,000 P.P.M. Test Tool Length 34 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 405 Anchor Length 25 ft. Size 5 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong thru Both Flow Periods.

Recovered 2800 ft. of water Chlorides 92,000 ppm

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Could not turn tool on F.F. - pulled loose - reset - then turned

Added 2ft Between Packers.

Time On Location 8:30 A.M. Time Pick Up Tool 1:30 P.M. Time Off Location 2:30 P.M.

Time Set Packer(s) 4:05 P.M. Time Started Off Bottom 8:15 P.M. Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2284 P.S.I.

Initial Flow Period Minutes 30 (B) 531 P.S.I. to (C) 993 P.S.I.

Initial Closed In Period Minutes 60 (D) 1513 P.S.I.

Final Flow Period Minutes 60 (E) 1072 P.S.I. to (F) 1423 P.S.I.

Final Closed In Period Minutes 90 (G) 1513 P.S.I.

Final Hydrostatic Pressure (H) 2284 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

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

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$595.00), Misrun (\$), Straddle Test (\$), Jars (\$300.00), Selective Zone (\$), Safety Joint (\$65.00), Standby (\$), Evaluation (\$), Extra Packer (\$), Circ. Sub. (\$35.00), Mileage (\$), Fluid Sampler (\$300.00), Extra Charts (\$), Insurance (\$), Telecopier (\$50.00), TOTAL (\$1295.00).

Thank you

WESTERN TESTING CO., INC.

Pressure Data

Date: 5-26 Test Ticket No. 18991  
 Recorder No. 11019 Capacity 4500 Location 4592 Ft.  
 Clock No. --- Elevation --- Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2282</u> P.S.I.	<u>4:05 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>538</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>996</u> P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1518</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>1070</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>1423</u> P.S.I.		
G Final Closed-in Pressure	<u>1520</u> P.S.I.		
H Final Hydrostatic Mud	<u>2266</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>22</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>31</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>0</u>	<u>996</u>	<u>0</u>	<u>1070</u>	<u>0</u>	<u>1423</u>
P 2	<u>5</u>	<u>3</u>	<u>1462</u>	<u>5</u>	<u>1095</u>	<u>3</u>	<u>1504</u>
P 3	<u>10</u>	<u>6</u>	<u>1477</u>	<u>10</u>	<u>1149</u>	<u>6</u>	<u>1511</u>
P 4	<u>15</u>	<u>9</u>	<u>1488</u>	<u>15</u>	<u>1198</u>	<u>9</u>	<u>1513</u>
P 5	<u>20</u>	<u>12</u>	<u>1493</u>	<u>20</u>	<u>1241</u>	<u>12</u>	<u>1514</u>
P 6	<u>25</u>	<u>15</u>	<u>1498</u>	<u>25</u>	<u>1277</u>	<u>15</u>	<u>1515</u>
P 7	<u>30</u>	<u>18</u>	<u>1500</u>	<u>30</u>	<u>1309</u>	<u>18</u>	<u>1516</u>
P 8	<u>35</u>	<u>21</u>	<u>1502</u>	<u>35</u>	<u>1338</u>	<u>21</u>	<u>1517</u>
P 9	<u>40</u>	<u>24</u>	<u>1504</u>	<u>40</u>	<u>1363</u>	<u>24</u>	<u>1518</u>
P 10	<u>45</u>	<u>27</u>	<u>1506</u>	<u>45</u>	<u>1385</u>	<u>27</u>	<u>1519</u>
P 11	<u>50</u>	<u>30</u>	<u>1508</u>	<u>50</u>	<u>1402</u>	<u>30</u>	<u>1520</u>
P 12	<u>55</u>	<u>33</u>	<u>1509</u>	<u>55</u>	<u>1421</u>	<u>33</u>	
P 13	<u>60</u>	<u>36</u>	<u>1510</u>	<u>60</u>	<u>1423</u>	<u>36</u>	
P 14		<u>39</u>	<u>1511</u>	<u>65</u>		<u>39</u>	
P 15		<u>42</u>	<u>1512</u>	<u>70</u>		<u>42</u>	
P 16		<u>45</u>	<u>1513</u>	<u>75</u>		<u>45</u>	
P 17		<u>48</u>	<u>1514</u>	<u>80</u>		<u>48</u>	
P 18		<u>51</u>	<u>1515</u>	<u>85</u>		<u>51</u>	
P 19		<u>54</u>	<u>1516</u>	<u>90</u>		<u>54</u>	
P 20		<u>57</u>	<u>1517</u>			<u>57</u>	
		<u>60</u>	<u>1518</u>			<u>60</u>	<u>1520</u>
		<u>63</u>	<u>1519</u>				

100' L

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

Test Ticket No. 18991

Date \_\_\_\_\_ Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_

Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A	Initial Hydrostatic Mud	_____	_____	_____	_____	_____
B	First Initial Flow Pressure	_____	First Flow Pressure	_____	_____	_____
C	First Final Flow Pressure	_____	Initial Closed-in Pressure	_____	_____	_____
D	Initial Closed-in Pressure	_____	Second Flow Pressure	_____	_____	_____
E	Second Initial Flow Pressure	_____	Final Closed-in Pressure	_____	_____	_____
F	Second Final Flow Pressure	_____				
G	Final Closed-in Pressure	_____				
H	Final Hydrostatic Mud	_____				

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	_____	63	_____	63
P 2	_____	66	_____	66
P 3	_____	69	_____	69
P 4	_____	72	_____	72
P 5	_____	75	_____	75
P 6	_____	78	_____	78
P 7	_____	81	_____	81
P 8	_____	84	_____	84
P 9	_____	87	_____	87
P10	_____	90	_____	90
P11	_____	93	_____	93
P12	_____	96	_____	96
P13	_____	99	_____	99
P14	_____	102	_____	102
P15	_____	105	_____	105
P16	_____	108	_____	108
P17	_____	111	_____	111
P18	_____	114	_____	114
P19	_____	117	_____	117
P20	_____	120	_____	120

Press. 1520  
  
1520



### Fluid Sample Report

Date 5-26-83 Ticket No. 18991  
 Company Pendleton Land + Exploration  
 Well Name & No. Penks #1 DST No. 1  
 County Merde State KS  
 Sampler No. 2 Test Interval 4577 - 4602

Pressure in Sampler 260 PSIG BHT 120 OF

Total Volume of Sampler 3150 CC cc.  
 Total Volume of Sample: 3050 cc.  
 Oil: \_\_\_\_\_ cc.  
 Water: 3050 cc.  
 Mud: \_\_\_\_\_ cc.  
 Gas: .03 cu. ft.  
 Other: \_\_\_\_\_

#### Resistivity

Water: .09 @ 78° of Chloride Content 92,000 ppm.  
 Mud Pit Sample .31 @ 78° of Chloride Content 19,000 ppm.  
 Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ OF

Where was sample drained Dodge City Shop

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



### Fluid Sample Report

Date 5/26/83 Ticket No. 18991  
 Company Pendleton Land & Exploration, Inc.  
 Well Name & No. #1 Penka DST No. 1  
 County Meade State Kansas  
 Sampler No. 2 Test Interval 4577-4602

Pressure in Sampler 260 PSIG BHT 120 OF

Total Volume of Sampler ..... 3150 ..... cc.  
 Total Volume of Sample: ..... 3050 ..... cc.  
 Oil: ..... cc.  
 Water: ..... 3050 ..... cc.  
 Mud: ..... cc.  
 Gas: ..... .03 ..... cu. ft.  
 Other: .....

#### Resistivity

Water: .09 @ 78° of Chloride Content 92,000 ppm.  
 Mud Pit Sample .31 @ 78° of Chloride Content 19,000 ppm.  
 Gas/Oil Ratio ..... Gravity ..... °API @ ..... OF

Where was sample drained Dodge City Shop

Remarks: .....

.....

.....

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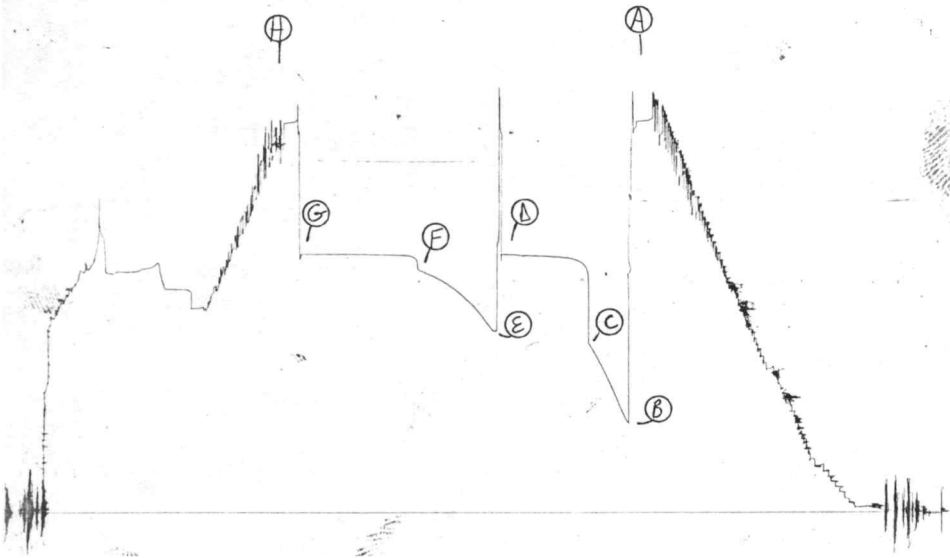
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11012  
DST #1

TKT. # 18991

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WESTERN TESTING COMPANY  
SUBSURFACE PRESSURE SURVEY

DATE: 5/26/83	TICKET #18991
CUSTOMER: PENDLETON LAND & EXPLOR. INC.	LEASE: PENKA
WELL: 1	TEST: 1
ELEVATION (KB): 0	FORMATION: LANSING
SECTION: 26	TOWNSHIP: 30S
RANGE: 26W	COUNTY: MEADE
GAUGE SN #11019	RANGE: 4500
	STATE: KANSAS
	CLOCK: 12

INTERVAL TEST FROM: 4577	FT	TO: 4602	FT	TOTAL DEPTH: 4602	FT
DEPTH OF SELECTIVE ZONE:					FT
PACKER DEPTH: 4570	FT	SIZE: 6 3/4	IN	PACKER DEPTH: 4577	FT
PACKER DEPTH:	FT	SIZE:	IN	PACKER DEPTH:	FT
				SIZE:	IN

DRILLING CONTRACTOR: H-30	
MUD TYPE: CHEMICAL	VISCOSITY: 40
WEIGHT: 9.0	WATER LOSS (CC): 4.8
CHLORIDES (P.P.M.): 19000	
JARS - MAKE: WTC	SERIAL NUMBER: 405
DID WELL FLOW? NO	REVERSED OUT? YES
DRILL COLLAR LENGTH: 480	FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH:	FT I.D.: IN
DRILL PIPE LENGTH: 4063	FT I.D.: 3.8 IN
TEST TOOL LENGTH: 34	FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 25	FT SIZE: 5 1/2 OD 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 2800	FT	OF: WATER	CHLORIDES 92000 PPM
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS: COULD NOT TURN TOOL ON FINAL FLOW.  
PULLED LOOSE-RESET-THEN TURNED.  
ADDED 2 FT. BETWEEN PACKERS.

TIME SET PACKER(S): 4:05 AM	TIME STARTED OFF BOTTOM: 8:15 AM
WELL TEMPERATURE: 120 'F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2282 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 538 PSI TO (C) 996 PSI
INITIAL CLOSED IN PERIOD MIN: 63	(D) 1518 PSI
FINAL FLOW PERIOD MIN: 60	(E) 1070 PSI TO (F) 1423 PSI
FINAL CLOSED IN PERIOD MIN: 90	(G) 1520 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2266 PSI





