



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

WESTERN TESTING CO., INC.

FORMATION TESTING

Kelly Bushing TICKET N° 6587

Elevation 1375 KB Formation HUNTON Eff. Pay Ft.

COMPANY NAME Perote / Hunt Co. Drilling, Inc. Date 18-17-80 Customer Order No.

ADDRESS 1700 Swartzville Bldg - Denver, Colo 80202

LEASE AND WELL NO. STRAIT Ranch #12 COUNTY MARION STATE KANSAS Sec. 20 Twp 21 S Rge 5 E

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 2316 ft. to 2330 ft. Total Depth 2330 ft.
Packer Depth 2311 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2316 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2320 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 2323 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Edco Drilling Rig #6 Drill Collar Length 232 I. D. 2 1/4 in.
Mud Type MAG 101 Viscosity 37 Weight Pipe Length I. D. in.
Weight 11.5 Water Loss 15.2 cc Drill Pipe Length 2062 I. D. 3.8 in.
Chlorides 11,000 PPM. Test Tool Length 22 ft. Tool Size 5/8 in.
Jars: Make NO Serial Number Anchor Length 14 ft. Size 5/8 in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow on both the initial & final flows.
no gas to surface.

Recovered 60' ft. of oil cut drilling mud
Recovered ft. of
Recovered 546 ft. of oil cut muddy water - chlorides 11,000 PPM
Recovered ft. of
Recovered ft. of

Remarks:

enter 2:00 PM tool up 3:00 PM tool down 7:00 PM off loc 7:45 PM
Time Set Packer(s) 5:00 P.M. Time Started Off Bottom 7:45 P.M. Maximum Temperature 98

Initial Hydrostatic Pressure	(A)	1225	P.S.I.
Initial Flow Period	Minutes	15	(B) 184 P.S.I. to (C) 145 P.S.I.
Initial Closed In Period	Minutes	30	(D) 800 P.S.I.
Final Flow Period	Minutes	60	(E) 176 P.S.I. to (F) 239 P.S.I.
Final Closed In Period	Minutes	60	(G) 800 P.S.I.
Final Hydrostatic Pressure	(H)	1194	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 Red Smith Thank you.

FIELD INVOICE

Open Hole Test	\$ 550.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$ 50.00
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage 50 mi	\$ 37.50
Fluid Sampler	\$
Extra Charts	\$
TOTAL	\$ 637.50

WESTERN TESTING CO., INC.

Pressure Data

Date 8-17-80 Test Ticket No. 4587
 Recorder No. 2606 Capacity 4150 Location 2320 Ft.
 Clock No. _____ Elevation 1375 XB Well Temperature 98 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1106 P.S.I. Open Tool 5:00 P M
 B First Initial Flow Pressure 96 P.S.I. First Flow Pressure 15 Mins. 15 Mins.
 C First Final Flow Pressure 128 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 800 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 173 P.S.I. Final Closed-in Pressure 60 Mins. 62 Mins.
 F Second Final Flow Pressure 254 P.S.I.
 G Final Closed-in Pressure 800 P.S.I.
 H Final Hydrostatic Mud 1089 P.S.I.

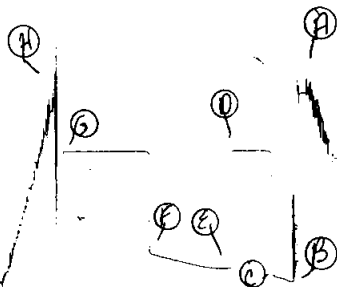
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</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 0	96	0	128	0	173	0	254
P 2 5	108	3	709	5	171	3	794
P 3 10	119	6	800	10	171	6	800
P 4 15	128	9		15	173	9	
P 5 20		12		20	179	12	
P 6 25		15		25	187	15	
P 7 30		18		30	196	18	
P 8 35		21		35	204	21	
P 9 40		24		40	214	24	
P 10 45		27		45	225	27	
P 11 50		30	800	50	235	30	
P 12 55		33		55	241	33	
P 13 60		36		60	254	36	
P 14		39		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	
						63	800

26061 DST #1

Net #6587

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Company Pendleton Land & Exploration, Inc. Lease & Well No. Strait Ranch #18
Elevation 1375 Kelly Bushing Hunton Formation Effective Pay - Ft. Ticket No. 6587
Date 8/17/80 Sec. 20 Twp. 21S Range 5E County Marion State Kansas

Test Approved by Daniel Fredlund Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 2316 ft. to 2330 ft. Total Depth 2330 ft.

Packer Depth 2311 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2316 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

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Bottom Recorder Depth (Outside) 2323 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Edco Drilling Rig #6 Drill Collar Length 232 I. D. 2 1/4 in.

Mud Type Mago-jel Viscosity 37 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 15.2 cc. Drill Pipe Length 2062 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 14 ft. Size 5 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 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. No gas to surface

Recovered 60 ft. of oil cut drilling mud

Recovered 546 ft. of oil cut muddy water Chlorides 11,000 ppm

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:00 ~~A.M.~~ P.M. Time Started Off Bottom 7:45 ~~A.M.~~ P.M. Maximum Temperature 98°

Initial Hydrostatic Pressure 1106 (A) P.S.I.

Initial Flow Period 15 Minutes (B) 96 P.S.I. to (C) 128 P.S.I.

Initial Closed In Period 30 Minutes (D) 800 P.S.I.

Final Flow Period 60 Minutes (E) 173 P.S.I. to (F) 254 P.S.I.

Final Closed In Period 63 Minutes (G) 800 P.S.I.

Final Hydrostatic Pressure 1089 (H) P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8-17-80 Test Ticket No. 6587
 Recorder No. 2606 Capacity 4150 Location 2320 Ft.
 Clock No. ----- Elevation 1375 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1106</u> P.S.I.	Open Tool	<u>5:00 P_M</u>	
B First Initial Flow Pressure	<u>96</u> P.S.I.	First Flow Pressure	<u>15</u> Mins	<u>15</u> Mins.
C First Final Flow Pressure	<u>128</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>800</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>173</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins	<u>63</u> Mins.
F Second Final Flow Pressure	<u>254</u> P.S.I.			
G Final Closed-in Pressure	<u>800</u> P.S.I.			
H Final Hydrostatic Mud	<u>1089</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</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>96</u>	<u>0</u>	<u>128</u>	<u>0</u>	<u>173</u>	<u>0</u>	<u>254</u>
P 2 <u>5</u>	<u>108</u>	<u>3</u>	<u>709</u>	<u>5</u>	<u>171</u>	<u>3</u>	<u>794</u>
P 3 <u>10</u>	<u>119</u>	<u>6</u>	<u>800</u>	<u>10</u>	<u>171</u>	<u>6</u>	<u>800</u>
P 4 <u>15</u>	<u>128</u>	<u>9</u>	<u>800</u>	<u>15</u>	<u>173</u>	<u>9</u>	<u>800</u>
P 5		<u>12</u>	<u>800</u>	<u>20</u>	<u>179</u>	<u>12</u>	<u>800</u>
P 6		<u>15</u>	<u>800</u>	<u>25</u>	<u>187</u>	<u>15</u>	<u>800</u>
P 7		<u>18</u>	<u>800</u>	<u>30</u>	<u>196</u>	<u>18</u>	<u>800</u>
P 8		<u>21</u>	<u>800</u>	<u>35</u>	<u>204</u>	<u>21</u>	<u>800</u>
P 9		<u>24</u>	<u>800</u>	<u>40</u>	<u>214</u>	<u>24</u>	<u>800</u>
P10		<u>27</u>	<u>800</u>	<u>45</u>	<u>225</u>	<u>27</u>	<u>800</u>
P11		<u>30</u>	<u>800</u>	<u>50</u>	<u>235</u>	<u>30</u>	<u>800</u>
P12				<u>55</u>	<u>241</u>	<u>33</u>	<u>800</u>
P13				<u>60</u>	<u>254</u>	<u>36</u>	<u>800</u>
P14						<u>39</u>	<u>800</u>
P15						<u>42</u>	<u>800</u>
P16						<u>45</u>	<u>800</u>
P17						<u>48</u>	<u>800</u>
P18						<u>51</u>	<u>800</u>
P19						<u>54</u>	<u>800</u>
P20						<u>57</u>	<u>800</u>
						<u>60</u>	<u>800</u>
						<u>63</u>	<u>800</u>