

Company F. G. Holl Lease & Well No. Palmquist #2  
 Elevation 1923 Ground Level Formation Marmaton Effective Pay - Ft. Ticket No. 15926  
 Date 3/18/82 Sec. 32 Twp. 29S Range 13W County Pratt State Kansas  
 Test Approved by W. J. Monk Western Representative Karl Leo West, Jr.

Formation Test No. 1 Interval Tested from 4380 ft. to 4420 ft. Total Depth 4420 ft.  
 Packer Depth 4375 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4380 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside)	<u>4386</u> ft.	Recorder Number	<u>5673</u>	Cap	<u>5400</u>
Bottom Recorder Depth (Outside)	<u>4389</u> ft.	Recorder Number	<u>15640</u>	Cap	<u>6600</u>
Below Straddle Recorder Depth	<u>-</u> ft.	Recorder Number	<u>-</u>	Cap	<u>-</u>

Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 309 I. D. 2.26 in.  
 Mud Type chem-monpac Viscosity 53 Weight Pipe Length 456 I. D. 2.8 in.  
 Weight 9.4 Water Loss 13.6 cc. Drill Pipe Length 3587 I. D. 3.8 in.  
 Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make No Serial Number - Anchor Length 40 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 XH in.

Blow: Initial flow epriod very weak (one fourth inch under water) decreasing to surface of water  
Final flow period very weak (surface of water) dead in seven minutes. Flushed tool - few weak  
Recovered 55 ft. of mud with slight rainbow. bubbles.

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

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

Time Set Packer(s)	<u>3:45</u>	<del>A.M.</del> P.M.	Time Started Off Bottom	<u>5:25</u>	<del>A.M.</del> P.M.	Maximum Temperature	<u>120°</u>
Initial Hydrostatic Pressure	(A)	<u>2163</u>	P.S.I.				
Initial Flow Period	Minutes	<u>20</u>	(B)	<u>33</u>	P.S.I. to (C)	<u>33</u>	P.S.I.
Initial Closed In Period	Minutes	<u>27</u>	(D)	<u>49</u>	P.S.I.		
Final Flow Period	Minutes	<u>20</u>	(E)	<u>37</u>	P.S.I. to (F)	<u>46</u>	P.S.I.
Final Closed In Period	Minutes	<u>24</u>	(G)	<u>57</u>	P.S.I.		
Final Hydrostatic Pressure	(H)	<u>2159</u>	P.S.I.				

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

Date 3/18/82

Recorder No. 5673

Test Ticket No. 15926

Clock No. -- Capacity 5400

Location 4386

Elevation 1923 Ground Level

Well Temperature 120

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2163</u>	P.S.I.	<u>3:45P</u>	<u>M</u>
B First Initial Flow Pressure	<u>33</u>	P.S.I.	<u>20</u>	<u>Mins. 20</u>
C First Final Flow Pressure	<u>33</u>	P.S.I.	<u>30</u>	<u>Mins. 27</u>
D Initial Closed-in Pressure	<u>49</u>	P.S.I.	<u>20</u>	<u>Mins. 20</u>
E Second Initial Flow Pressure	<u>37</u>	P.S.I.	<u>30</u>	<u>Mins. 24</u>
F Second Final Flow Pressure	<u>46</u>	P.S.I.		
G Final Closed-in Pressure	<u>57</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2159</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: 9 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**Second Flow Pressure**  
Breakdown: 4 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

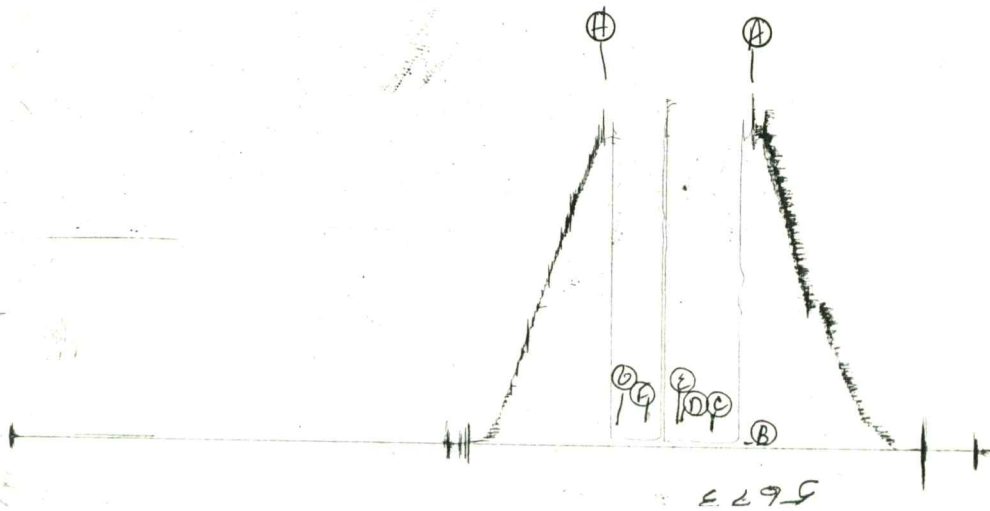
**Final Shut-In**  
Breakdown: 8 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>33</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>33</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>46</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>35</u>	<u>10</u>	<u>71</u>	<u>6</u>	<u>46</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>36</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>48</u>
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>38</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>51</u>
P 6		<u>15</u>	<u>41</u>			<u>15</u>	<u>54</u>
P 7		<u>18</u>	<u>44</u>			<u>18</u>	<u>55</u>
P 8		<u>21</u>	<u>46</u>			<u>21</u>	<u>56</u>
P 9		<u>24</u>	<u>48</u>			<u>24</u>	<u>57</u>
P10		<u>27</u>	<u>49</u>				
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Flushed tool

JK # 15926

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Company F. G. Holl Lease & Well No. Palmquist #2  
 Elevation 1923 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 15927  
 Date 3/ 19/82 Sec. 32 Twp. 29S Range 13W County Pratt State Kansas  
 Test Approved by W. J. Monk Western Representative Karl Leo West, Jr.

Formation Test No. 2 Interval Tested from 4480 ft. to 4526 ft. Total Depth 4526 ft.  
 Packer Depth 4475 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4480 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4486 ft. Recorder Number 5673 Cap 5400  
 Bottom Recorder Depth (Outside) 4489 ft. Recorder Number 15640 Cap 6600  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -  
 Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 309 I. D. 2.26 in.  
 Mud Type chem-monpac Viscosity 55 Weight Pipe Length 456 I. D. 2.8 in.  
 Weight 9.5 Water Loss 17.6 cc. Drill Pipe Length 4096 I. D. 3.8 in.  
 Chlorides 16,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make No Serial Number - Anchor Length 46 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 XH in.

Blow: Initial flow period gas to surface in twenty-seven minutes. See attached sheet for gas measurements.

Recovered 2380 ft. of gassy oil  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Dropped bar; could not get fluid to circulate (pin cracked but wouldn't break off)

Time Set Packer(s) 11:40 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 2:10 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 121°  
 Initial Hydrostatic Pressure ..... (A) 2215 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 183 P.S.I. to (C) 268 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 1092 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 260 P.S.I. to (F) 407 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 1003 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2215 P.S.I.

## GAS FLOW REPORT

Date 3/19/82 Ticket 15927 Company F. G. Holl  
 Well Name and No. Palmquist #2 Dst No. 2 Interval Tested 4480'-4526'  
 County Pratt State Kansas Sec. 32 Twp. 29S Rg. 13W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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### PRE FLOW

27 min.	6.5 PSIG	1½" orifice			995,000 CFPD
30 min.	3.5 PSIG	1½" orifice			709,000 CFPD

### SECOND FLOW

10 min.	1.0 PSIG	1/2" orifice			33,900 CFPD )
20 min.	1.0 PSIG	1/2" orifice			33,900 CFPD )
30 min.	1.0 PSIG	1/2" orifice			33,900 CFPD )
40 min.	1.0 PSIG	1/2" orifice			33,900 CFPD )
50 min.	1.0 PSIG	1/2" orifice			33,900 CFPD )
60 min.	1.0 PSIG	1/2" orifice			33,900 CFPD )

STABLE @ 33,900 CFPD

### GAS BOTTLE

Serial No. --- Date Bottle Filled ---- Date to be Invoiced 3/19/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME F. G. Holl  
 Authorized by W. J. Monk

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

Date 3/19/82 Test Ticket No. 15927  
 Recorder No. 5673 Capacity 5400 Location 4486 Ft.  
 Clock No. -- Elevation 1923 Ground Level Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2215	P.S.I.	11:40A	M
B First Initial Flow Pressure	183	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	268	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	1092	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	260	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	407	P.S.I.		
G Final Closed-in Pressure	1003	P.S.I.		
H Final Hydrostatic Mud	2215	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	5 mins.	and a	final inc. of	0 Min.	of	3 mins.	and a	final inc. of	0 Min.
	of	6 Inc.	and a	final inc. of	0 Min.	of	12 Inc.	and a	final inc. of	0 Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.			
P 1	0	183	0	268	0	260	0	407		
P 2	5	183	3	574	5	260	3	609		
P 3	10	188	6	765	10	264	6	735		
P 4	15	213	9	869	15	280	9	820		
P 5	20	238	12	940	20	295	12	877		
P 6	25	265	15	989	25	310	15	913		
P 7	30	268	18	1022	30	325	18	940		
P 8			21	1046	35	342	21	962		
P 9			24	1065	40	352	24	978		
P10			27	1079	45	362	27	995		
P11			30	1092	50	376	30	1003		
P12					55	393				
P13					60	407				
P14										
P15										
P16										
P17										
P18										
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