

Company W. K. Black, Inc. Lease & Well No. Davis #1  
 Elevation 1962 Kelly Bushing Formation Cotton Wood Effective Pay - Ft. Ticker No. 9170  
 Date 1/26/81 Sec. 34 Twp. 29S Range 14W County Pratt State Kansas  
 Test Approved by W. K. Black Western Representative Rodger A Mounts

Formation Test No. 1 Interval Tested from 2665 ft. to 2723 ft. Total Depth 2723 ft.  
 Packer Depth 2665 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2685 ft. Recorder Number 1566 Cap. 4300  
 Bottom Recorder Depth (Outside) 2723 ft. Recorder Number 3086 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Gabbert & Jones Rig #6 Drill Collar Length 414 I. D. 2.2 in.  
 Mud Type Premix Gel Viscosity 32 Weight Pipe Length - I. D. - in.  
 Weight 9.8 Water Loss N/C cc. Drill Pipe Length 2228 I. D. 3.8 in.  
 Chlorides 78,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 419 Anchor Length 58 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: Weak - dead 6 minutes into initial flow period. Same blow final flow period.

Recovered 365 ft. of drilling mud, slightly water cut  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks: No packer seat 1st run . Lost mud. Good seat second try.

Time Set Packer(s)	<del>A.M.</del> P.M.	Time Started Off Bottom	<del>A.M.</del> P.M.	Maximum Temperature
<u>6:22</u>		<u>7:47</u>		<u>92</u>
Initial Hydrostatic Pressure	(A)	<u>1452</u>	P.S.I.	
Initial Flow Period	Minutes	<u>10</u>	(B) <u>121</u> P.S.I. to (C) <u>130</u>	P.S.I.
Initial Closed In Period	Minutes	<u>30</u>	(D) <u>920</u>	P.S.I.
Final Flow Period	Minutes	<u>15</u>	(E) <u>143</u> P.S.I. to (F) <u>158</u>	P.S.I.
Final Closed In Period	Minutes	<u>33</u>	(G) <u>908</u>	P.S.I.
Final Hydrostatic Pressure	(H)	<u>1365</u>	P.S.I.	

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 1/26/81 Recorder No. 1566 Capacity 4300 Test Ticket No. 9170  
 Clock No. - Elevation 1962 Kelly Bushing Location 2685 Ft. Well Temperature 92 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1452</u>	P.S.I.	<u>6:22P</u>	<u>M</u>
B First Initial Flow Pressure	<u>121</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>130</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>920</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>143</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>158</u>	P.S.I.		
G Final Closed-in Pressure	<u>908</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1365</u>	P.S.I.		

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 2 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

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

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

**Final Shut-In**  
 Breakdown: 11 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>121</u>	<u>0</u>	<u>130</u>	<u>0</u>	<u>143</u>	<u>0</u>	<u>158</u>
P 2 <u>5</u>	<u>125</u>	<u>3</u>	<u>697</u>	<u>5</u>	<u>147</u>	<u>3</u>	<u>697</u>
P 3 <u>10</u>	<u>130</u>	<u>6</u>	<u>815</u>	<u>10</u>	<u>153</u>	<u>6</u>	<u>798</u>
P 4		<u>9</u>	<u>856</u>	<u>15</u>	<u>158</u>	<u>9</u>	<u>832</u>
P 5		<u>12</u>	<u>877</u>			<u>12</u>	<u>858</u>
P 6		<u>15</u>	<u>893</u>			<u>15</u>	<u>871</u>
P 7		<u>18</u>	<u>901</u>			<u>18</u>	<u>882</u>
P 8		<u>21</u>	<u>910</u>			<u>21</u>	<u>893</u>
P 9		<u>24</u>	<u>914</u>			<u>24</u>	<u>897</u>
P10		<u>27</u>	<u>918</u>			<u>27</u>	<u>901</u>
P11		<u>30</u>	<u>920</u>			<u>30</u>	<u>905</u>
P12						<u>33</u>	<u>908</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 9170  
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