

FORMATION TEST REPORT



HOME OFFICE: GREAT BEND, KANSAS
P. O. BOX 793 PHONE 793-7903

COMPANY Lee Banks-W.R. Atkington-Bacon Res. LEASE AND WELL NO. Freeman A # 1 SEC. 18 TWP. 33s RGE. 33w TEST NO. 1 DATE 2-11



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company LeeBanks-W.R. Atkinson-Beacon Resources Lease & Well No. Freeman A # 1
Elevation 2877 Kelly Bushing Formation Toronto Effective Pay _____ Ft. Ticket No. 12676
Date 2-13-70 Sec. 18 Twp. 33s Range 33w County Seward State Kansas
Test Approved by W.R. Atkinson Western Representative Leon Elmore

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 4247' to 4255' Total Depth 4255'
Size Main Hole 7 7/8 Bit Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth 4233 Ft. Size 6 3/4 Packer Depth 4248 Ft. Size 6 3/4
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Packer Depth _____ Ft. Size _____
Tool Size 5 1/2"OD Tool Jt. Size 4 1/2"FH Anchor Length 8 Ft. Size 5 1/2"OD

RECORDERS Depth 4249 Ft. Clock No. 6866 Depth 4252 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 7:53P M
Tool Open I.F.P. From 8:55 M. to 8:40P M. Hr. 45 Min. From (B) 17 P.S.I. To (C) 50 P.S.I.
Tool Closed I.C.I.P. From 8:40 M. to 9:10P M. Hr. 30 Min. (D) 1117 P.S.I.
Tool Open F.F.P. From 9:10 M. to 10:10P M. Hr. 60 Min. From (E) 66 P.S.I. To (F) 107 P.S.I.
Tool Closed F.C.I.P. From 10:10 M. to 10:55P M. Hr. 45 Min. (G) 1140 P.S.I.
Initial Hydrostatic Pressure (A) 2028 P.S.I. Final Hydrostatic Pressure (H) 2018 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak to fair Bottom Choke Size 3.4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 20 feet very slight oil cut mud-- 172 feet muddy salt water

Reversed Out Yes No _____ Mud Type starch Viscosity 37 Weight 8.9 Water Loss 9.8 cc. Maximum Temp. 109 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size 4 1/2"OD Make WTC Ser. No. 411
EXTRA EQUIPMENT: Dual Packers yes Safety Joint yes Did Packer Hold? yes Where? _____
Length Drill Pipe 2890 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1025 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars 2 1/2 in. Length D.S.T. Tool 45 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

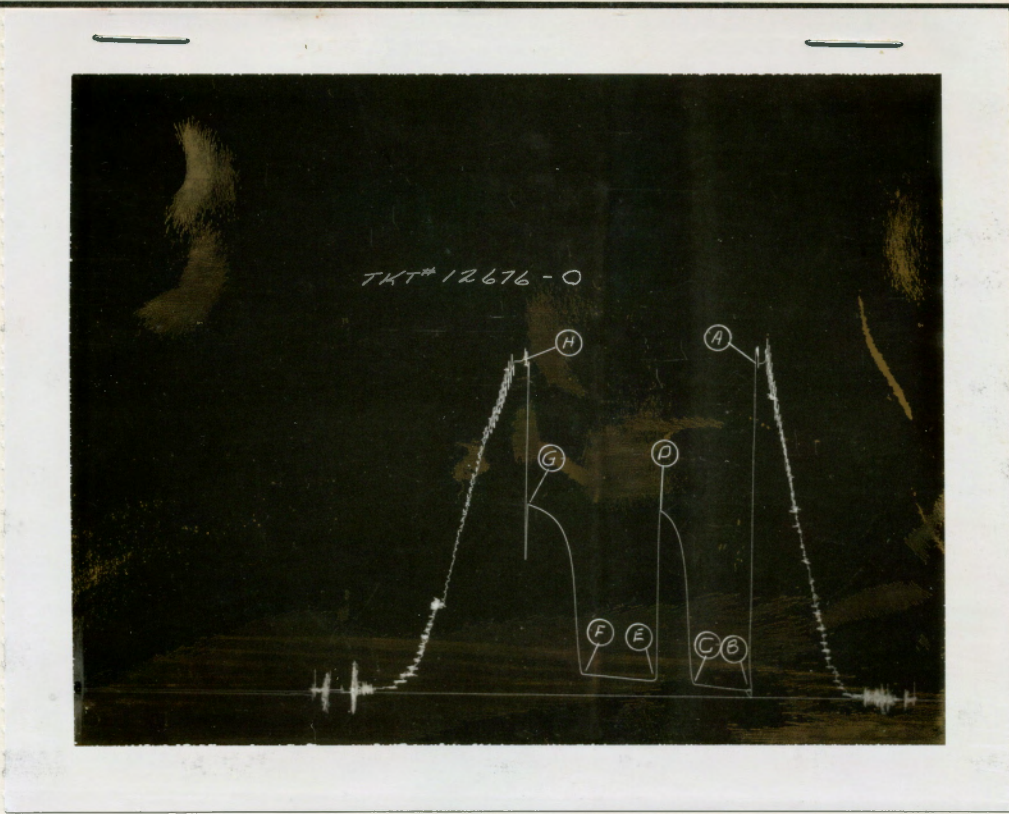
Date 2-13-70 Test Ticket No. 12676
 Recorder No. 3085 Capacity 4500 Location 4249 Ft.
 Clock No. 6866 Elevation 2877 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2028</u>	P.S.I.	<u>7:53P</u>	M
B First Initial Flow Pressure	<u>17</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
C First Final Flow Pressure	<u>50</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>1117</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E Second Initial Flow Pressure	<u>66</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
F Second Final Flow Pressure	<u>107</u>	P.S.I.		
G Final Closed-in Pressure	<u>1140</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2018</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>17</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>107</u>
P 2 <u>5</u>	<u>19</u>	<u>3</u>	<u>150</u>	<u>5</u>	<u>66</u>	<u>3</u>	<u>205</u>
P 3 <u>10</u>	<u>22</u>	<u>6</u>	<u>548</u>	<u>10</u>	<u>72</u>	<u>6</u>	<u>467</u>
P 4 <u>15</u>	<u>26</u>	<u>9</u>	<u>780</u>	<u>15</u>	<u>75</u>	<u>9</u>	<u>717</u>
P 5 <u>20</u>	<u>29</u>	<u>12</u>	<u>909</u>	<u>20</u>	<u>78</u>	<u>12</u>	<u>846</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>950</u>	<u>25</u>	<u>82</u>	<u>15</u>	<u>925</u>
P 7 <u>30</u>	<u>39</u>	<u>18</u>	<u>1025</u>	<u>30</u>	<u>87</u>	<u>18</u>	<u>979</u>
P 8 <u>35</u>	<u>41</u>	<u>21</u>	<u>1060</u>	<u>35</u>	<u>90</u>	<u>21</u>	<u>1014</u>
P 9 <u>40</u>	<u>46</u>	<u>24</u>	<u>1083</u>	<u>40</u>	<u>93</u>	<u>24</u>	<u>1043</u>
P10 <u>45</u>	<u>50</u>	<u>27</u>	<u>1106</u>	<u>45</u>	<u>97</u>	<u>27</u>	<u>1066</u>
P11 _____	_____	<u>30</u>	<u>1117</u>	<u>50</u>	<u>101</u>	<u>30</u>	<u>1087</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>103</u>	<u>33</u>	<u>1102</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>107</u>	<u>36</u>	<u>1115</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>1122</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>1132</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1140</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2115	2028	PSI
(B) First Initial Flow Pressure	11	17	PSI
(C) First Final Flow Pressure	47	50	PSI
(D) Initial Closed-in Pressure	1117	1117	PSI
(E) Second Initial Flow Pressure	71	66	PSI
(F) Second Final Flow Pressure	107	107	PSI
(G) Final Closed-in Pressure	1140	1140	PSI
(H) Final Hydrostatic Mud	2098	2018	PSI