



Home Office: Great Bend, Kansas
 P. O. Box 793 Gladstone 3-7903

Company Pickrell Drlg. Co. Lease & Well No. Crumley #1
 Elevation 1447' D.F. Ticket Number 3751
 Date 5-16-64 Sec. 11 Twp. 30S Range 7W County Kingman State Kansas
 Test Approved by Ralph W. Ruwe Western Representative Ray H. Roadenbaugh

Formation Test No. 1 O.K. Misrun Interval Tested From 4105' to 4121' Total Depth 4121'
 Size Main Hole 7 5/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 4105 Ft. Size 6 3/4" Packer Depth 4100 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 16 Ft. Size 5 1/2" OD

RECORDERS
 Depth 4109 Ft. Clock No. 6897 Inside Amerada Cap. 3150# No. 1565 Outside 1565
 Depth 4112 Ft. Clock No. 29 Bottom Make WB Cap. No. Outside
 Below Straddle: Depth Clock No. Inside Outside
 Top Make Cap. No. Outside Bottom Make Cap. No. Outside

Time Set Packer 4:52 A M
 Tool Open I.F.P. From 4:55A M to 4:58A M - Hr. 3 Min. From (B) 18 P.S.I. To (C) 18 P.S.I.
 Tool Closed I.C.I.P. From 4:58A M. to 5:28A M. - Hr. 30 Min. (D) 53 P.S.I.
 Tool Open F.F.P. From 5:28A M. to 7:09A M. 1 Hr. 41 Min. From (E) 23 P.S.I. To (F) 28 P.S.I.
 Tool Closed F.C.I.P. From 7:09A M. to 7:39A M. - Hr. 30 Min. (G) 59 P.S.I.
 Initial Hydrostatic Pressure (A) 2300 P.S.I. Final Hydrostatic Pressure (H) 2281 P.S.I.

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

BLOW Strong blow throughout Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 60' 1650' Gas in pipe - 60' Gas cut mud - slight stain

Reversed Out Yes No Mud Type Starch Viscosity 51 Weight 10.3 Maximum Temp. 128 °F
 EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____
 Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
 Length Drill Pipe 3403 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 682 ft. I.D. Weight Pipe 2.8 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D. S. T. Tool 35 ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 5-16-64

Test Ticket No. 3751

Recorder No. 1565 Capacity 3150# Location 4109 Ft.

Clock No. 6897 Elevation 1447' D.F. Well Temperature 128 °F

Point	Pressure	P.S.I.	Event	Time Given	Time Computed
A Initial Hydrostatic Mud	2300	P.S.I.	Opened Tool	4:52A	4:52 A
B First Initial Flow Pressure	18	P.S.I.	First Flow Pressure	3	3
C First Final Flow Pressure	18	P.S.I.	Initial Closed-in Pressure	30	30
D Initial Closed-in Pressure	53	P.S.I.	Second Flow Pressure	101	100
E Second Initial Flow Pressure	23	P.S.I.	Final Closed-in Pressure	30	29
F Second Final Flow Pressure	28	P.S.I.			
G Final Closed-in Pressure	59	P.S.I.			
H Final Hydrostatic Mud	2281	P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
 Breakdown: 1 Inc.
 of 3 mins. and a
 final inc. of - Min.

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

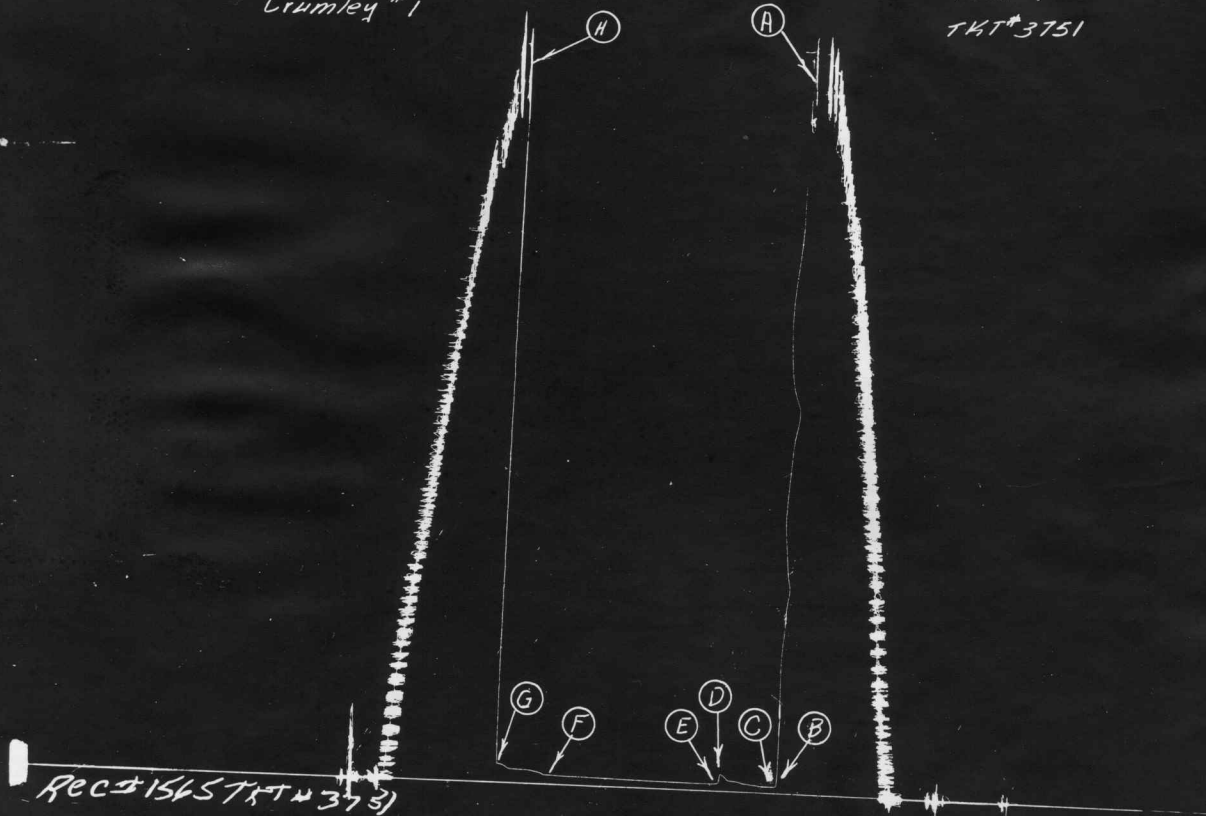
Second Flow Pressure
 Breakdown: 20 Inc.
 of 5 mins. and a
 final inc. of - Min.

Final Shut-In
 Breakdown: 9 Inc.
 of 3 mins. and a
 final inc. of 2 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	18	0	18	0	23	0	28
P 2	3	18	3	19	5	23	3	32
P 3			6	21	10	23	6	39
P 4			9	23	15	23	9	40
P 5			12	25	20	23	12	42
P 6			15	28	25	23	15	43
P 7			18	31	30	23	18	43
P 8			21	34	35	23	21	43
P 9			24	37	40	23	24	51
P10			27	47	45	23	27	58
P11			30	53	50	23	29	59
P12					55	24		
P13					60	25		
P14					65	25		
P15					70	25		
P16					75	25		
P17					80	26		
P18					85	26		
P19					90	27		
P20					95	27		
					100	28		

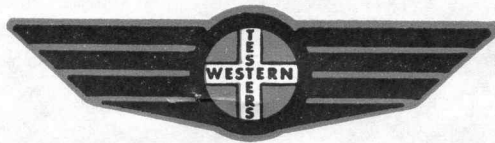
Pickrell Drilg. Co.
Crumley #1

Test #1
TKT#3751



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2300 PSI
(B) First Initial Flow Pressure	18 PSI
(C) First Final Flow Pressure	18 PSI
(D) Initial Closed-in Pressure	53 PSI
(E) Second Initial Flow Pressure	23 PSI
(F) Second Final Flow Pressure	23 PSI
(G) Final Closed-in Pressure	59 PSI
(H) Final Hydrostatic Mud	2281 PSI



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Company Pickrell Drlg. Co. Lease & Well No. Crumley #1
 Elevation 1447' D.F. Ticket Number 3752
 Date 5-16-64 Sec. 11 Twp. 30S Range 7W County Kingman State Kansas
 Test Approved by Ralph W. Ruwwe Western Representative Ray H. Roadenbaugh

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 4121' to 4141' Total Depth 4141'
 Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No _____ Conv. _____ B.T. Damaged _____ Yes No _____
 Packer Depth 4121 Ft. Size 6 3/4" Packer Depth 4116 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 20 Ft. Size 5 1/2" OD

RECORDERS Depth 4128 Ft. Clock No. 6897 Depth 4131 Ft. Clock No. 29
 Top Make Amerada Cap. 3150# No. 1565 Inside _____ Outside _____ Bottom Make Western Cap. 3000# No. 29 Inside _____ Outside _____
 Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
 Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
 Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 8:22 P M
 Tool Open I.F.P. From 8:26P M to 8:30P M - Hr. 4 Min. From (B) 39 P.S.I. To (C) 39 P.S.I.
 Tool Closed I.C.I.P. From 8:30P M. to 9:00P M. - Hr. 30 Min. (D) 1223 P.S.I.
 Tool Open F.F.P. From 9:00P M. to 10:30P M. 1 Hr. 30 Min. From (E) 56 P.S.I. To (F) 109 P.S.I.
 Tool Closed F.C.I.P. From 10:30P M. to 11:00P M. - Hr. 30 Min. (G) 817 P.S.I.
 Initial Hydrostatic Pressure (A) 2295 P.S.I. Final Hydrostatic Pressure (H) 2263 P.S.I.

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

BLOW Strong blow throughout - Gas to surface in 1 Hr. 30 mins. T.S.T.M. Bottom Choke Size 3/4 in.
 Did Well Flow _____ Yes No _____ Recovery Total Ft. 230' 50' Gas cut mud - 120' Hvy. Gas and Oil cut
Mud - 60' Water Mud

Reversed Out _____ Yes No _____ Mud Type Starch Viscosity 51 Weight 10.3 Maximum Temp. 133 °F
 EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____
 Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
 Length Drill Pipe 3419 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 682 ft. I.D. Weight Pipe 2.6 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D. S. T. Tool 39 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 5-16-64 Test Ticket No. 3752 BB
 Recorder No. 1565 Capacity 3150# Location 4128 Ft.
 Clock No. 6897 Elevation 1447' D.F. Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2295</u>	P.S.I.	<u>8:22 P</u>	<u>8:22 PM</u>
B First Initial Flow Pressure	<u>39</u>	P.S.I.	<u>4</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>39</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1223</u>	P.S.I.	<u>90</u> Mins.	<u>88</u> Mins.
E Second Initial Flow Pressure	<u>56</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>109</u>	P.S.I.		
G Final Closed-in Pressure	<u>817</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2263</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.
 Breakdown: 1 Inc.
 of 5 mins. and a
 final inc. of - Min.

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

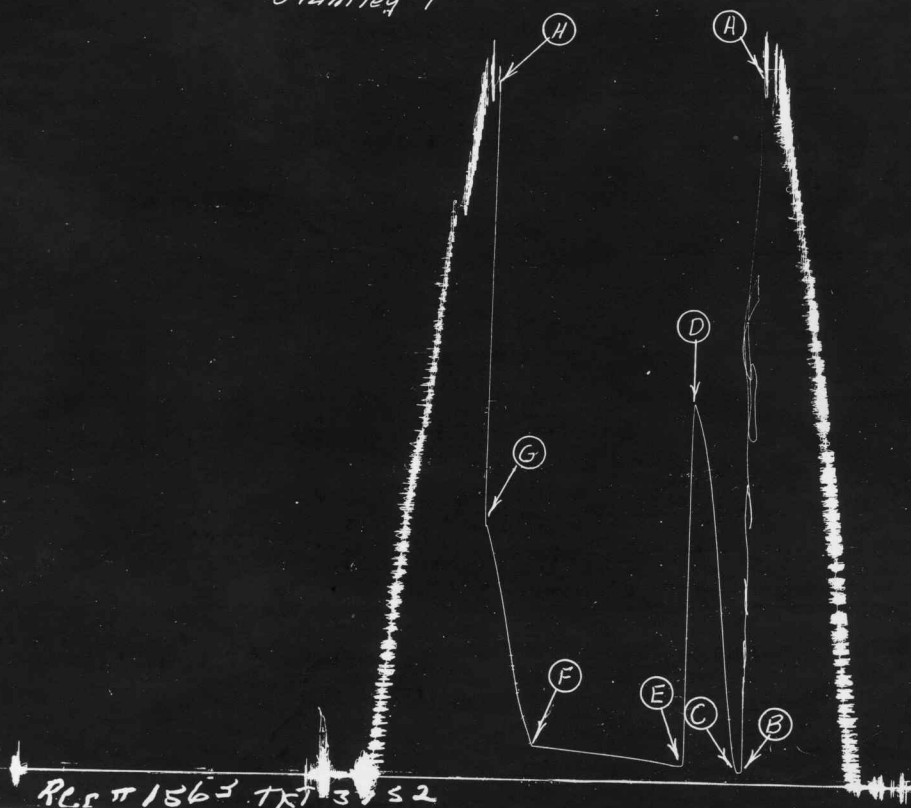
Second Flow Pressure
 Breakdown: 17 Inc.
 of 5 mins. and a
 final inc. of 3 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>39</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>109</u>
P 2	<u>39</u>	<u>3</u>	<u>111</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>161</u>
P 3		<u>6</u>	<u>264</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>206</u>
P 4		<u>9</u>	<u>417</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>272</u>
P 5		<u>12</u>	<u>593</u>	<u>20</u>	<u>70</u>	<u>12</u>	<u>362</u>
P 6		<u>15</u>	<u>761</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>455</u>
P 7		<u>18</u>	<u>910</u>	<u>30</u>	<u>78</u>	<u>18</u>	<u>551</u>
P 8		<u>21</u>	<u>1018</u>	<u>35</u>	<u>81</u>	<u>21</u>	<u>643</u>
P 9		<u>24</u>	<u>1115</u>	<u>40</u>	<u>84</u>	<u>24</u>	<u>717</u>
P10		<u>27</u>	<u>1174</u>	<u>45</u>	<u>87</u>	<u>27</u>	<u>780</u>
P11		<u>30</u>	<u>1223</u>	<u>50</u>	<u>89</u>	<u>30</u>	<u>817</u>
P12				<u>55</u>	<u>92</u>		
P13				<u>60</u>	<u>95</u>		
P14				<u>65</u>	<u>97</u>		
P15				<u>70</u>	<u>100</u>		
P16				<u>75</u>	<u>103</u>		
P17				<u>80</u>	<u>105</u>		
P18				<u>85</u>	<u>107</u>		
P19				<u>88</u>	<u>109</u>		
P20							

Pickrell Drig. Co.
Crumley #1

Test # 2
TKT#3752



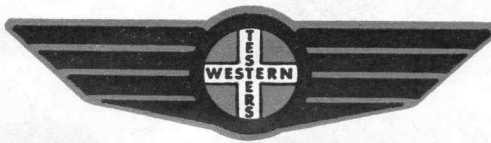
PLP 11563 TKT 3752

This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2295	PSI
(B) First Initial Flow Pressure	39	PSI
(C) First Final Flow Pressure	39	PSI
(D) Initial Closed-in Pressure	1223	PSI
(E) Second Initial Flow Pressure	56	PSI
(F) Second Final Flow Pressure	109	PSI
(G) Final Closed-in Pressure	8.17	PSI
(H) Final Hydrostatic Mud	2263	PSI



Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Co. Lease & Well No. Crumley #1
 Elevation 1447' D.F. Ticket Number 4029
 Date 5-18-64 Sec. 11 Twp. 30S Range 7W County Kingman State Kansas
 Test Approved by Ralph W. Ruwe Western Representative George Tew

Formation Test No. 3 O.K. Misrun Interval Tested From 4141' to 4161' Total Depth 4161'
 Size Main Hole 7 5/8" Rat Hole None Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 4141 Ft. Size 6 3/4" Packer Depth 4136 Ft. Size 6 3/4"
 Straddle Yes No Conv. B.T. Damaged Yes No
 Tool Size 5 1/2" OD Packer Depth 4141 Ft. Size 20 Ft. Size 5 1/2" OD
 Tool Jt. Size 4 1/2" FH Anchor Length 20 Ft. Size 5 1/2" OD

RECORDERS Depth 4155 Ft. Clock No. 6861 Depth 4158 Ft. Clock No. 120
 Top Make Amerada Cap. 4200# No. 1558 Inside Outside Bottom Make Western Cap. 4000# No. 60 Inside Outside
 Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Inside Outside
 Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 9:15P
 Tool Open I.F.P. From 9:18P M to 9:24P M - Hr 6 Min. From (B) 96 P.S.I. To (C) 96 P.S.I.
 Tool Closed I.C.I.P. From 9:24P M. to 9:54P M. - Hr 30 Min. (D) 1440 P.S.I.
 Tool Open F.F.P. From 9:54P M. to 11:24P M. 1 Hr. 30 Min. From (E) 101 P.S.I. To (F) 122 P.S.I.
 Tool Closed F.C.I.P. From 11:24P M. to 11:54P M. - Hr 30 Min. (G) 1224 P.S.I.
 Initial Hydrostatic Pressure (A) 2332 P.S.I. Final Hydrostatic Pressure (H) 2324 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
 INFORMATION _____ M. _____
 _____ M. _____
 _____ M. _____

BLOW Weak, increasing to fair Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 180' Wtry mud with few specks oil

Reversed Out Yes No Mud Type Starch Viscosity 48 Weight 10.3 Maximum Temp. 130 °F
 EXTRA EQUIPMENT: Dual Packers Safety Joint No Jars: Size No Make _____ Ser. No. _____
 Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
 Length Drill Pipe 3461 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 660 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D. S. T. Tool 40 ft.

Remarks Amerada clock stopped.

WESTERN TESTING CO., INC.
Pressure Data

Date 5-18-64 Test Ticket No. 4029
 Recorder No. 1558 Capacity 4000# Location 4155 Ft.
 Clock No. 6861 Elevation 1447' D.F. Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2332</u> P.S.I.	Opened Tool	<u>9:15 P</u>	<u>9:15 PM</u>
B First Initial Flow Pressure	<u>96</u> P.S.I.	First Flow Pressure	<u>6</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>96</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1440</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>101</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>122</u> P.S.I.			
G Final Closed-in Pressure	<u>1224</u> P.S.I.			
H Final Hydrostatic Mud	<u>2324</u> P.S.I.			

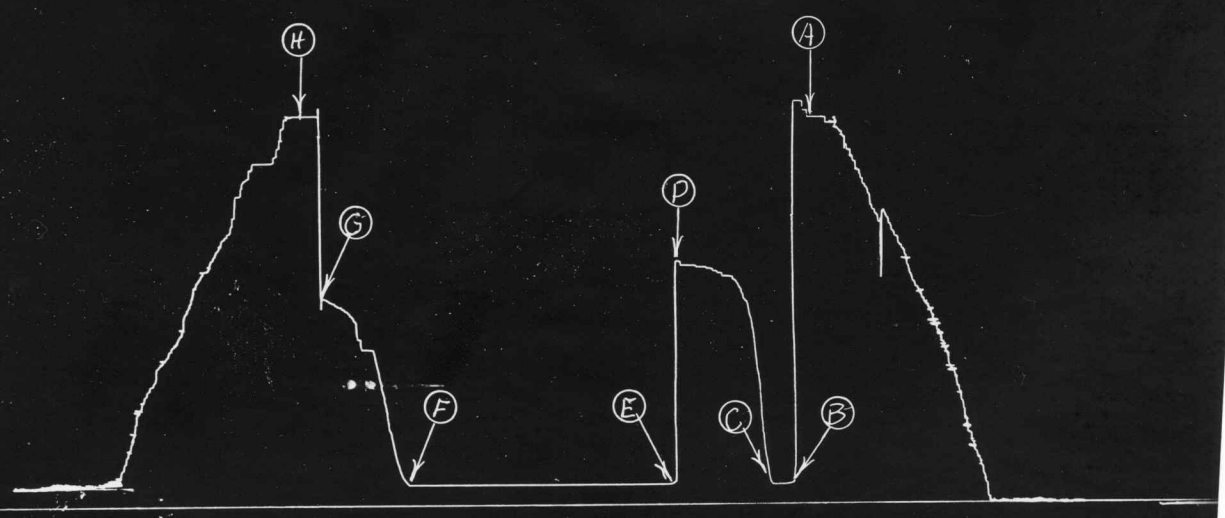
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Initial Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>96</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>101</u>	<u>0</u>	<u>122 132</u>
P 2 <u>5</u>	<u>96</u>	<u>3</u>	<u>580</u>	<u>5</u>	<u>101</u>	<u>3</u>	<u>232</u>
P 3		<u>6</u>	<u>1054</u>	<u>10</u>	<u>102</u>	<u>6</u>	<u>558</u>
P 4		<u>9</u>	<u>1306</u>	<u>15</u>	<u>103</u>	<u>9</u>	<u>830</u>
P 5		<u>12</u>	<u>1356</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>968</u>
P 6		<u>15</u>	<u>1388</u>	<u>25</u>	<u>105</u>	<u>15</u>	<u>1058</u>
P 7		<u>18</u>	<u>1408</u>	<u>30</u>	<u>107</u>	<u>18</u>	<u>1134</u>
P 8		<u>21</u>	<u>1416</u>	<u>35</u>	<u>109</u>	<u>21</u>	<u>1180</u>
P 9		<u>24</u>	<u>1426</u>	<u>40</u>	<u>110</u>	<u>24</u>	<u>1210</u>
P10		<u>27</u>	<u>1440</u>	<u>45</u>	<u>112</u>	<u>27</u>	<u>1224</u>
P11				<u>50</u>	<u>114</u>		
P12				<u>55</u>	<u>115</u>		
P13				<u>60</u>	<u>116</u>		
P14				<u>65</u>	<u>116</u>		
P15				<u>70</u>	<u>117</u>		
P16				<u>75</u>	<u>118</u>		
P17				<u>80</u>	<u>120</u>		
P18				<u>85</u>	<u>121</u>		
P19				<u>90</u>	<u>122</u>		
P20							

Pickrell Drilg. Co.
Crumley #1

Test #3
TKT #4029



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	2332	PSI
(B) First Initial Flow Pressure	96	PSI
(C) First Final Flow Pressure	96	PSI
(D) Initial Closed-in Pressure	1440	PSI
(E) Second Initial Flow Pressure	101	PSI
(F) Second Final Flow Pressure	122	PSI
(G) Final Closed-in Pressure	1224	PSI
(H) Final Hydrostatic Mud	2324	PSI