

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

Company Time Petroleum Company Lease & Well No. Koelling #1
Elevation 2441' K.B. Ticket Number 3217
Date 11-19-63 Sec. 6 Twp. 8 29 Range 21W County Ford State Kansas
Test Approved by Toby Elster Western Representative George Tew

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4997' to 5056' Total Depth 5056'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No Conv. ☒ B.T. ☒ Damaged ☒ Yes ☒ No
Packer Depth 4997 Ft. Size 6 3/4" Packer Depth 4992 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No ☒ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 60 Ft. Size 30' 4 1/2" DP
30' 5 1/2" OD

RECORDERS Depth 5047 Ft. Clock No. 6806 Depth 5050 Ft. Clock No. 60
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 ☐
Top Make ☐ Cap. ☐ No. ☐ Inside ☐ Outside ☐ Bottom Make ☐ Cap. ☐ No. ☐ Inside ☐ Outside ☐

Time Set Packer 11:49 P M
Tool Open I.F.P. From 11:52P M to 11:57P M - Hr. 5 Min. From (B) 69 P.S.I. To (C) 69 P.S.I.
Tool Closed I.C.I.P. From 11:57P M. to 12:27P M. - Hr. 30 Min. (D) 1689 P.S.I.
Tool Open F.F.P. From 12:27P M. to 1:57P M. 1 Hr. 30 Min. From (E) 77 P.S.I. To (F) 84 P.S.I.
Tool Closed F.C.I.P. From 1:57P M. to 2:27P M. - Hr. 30 Min. (G) 1437 P.S.I.
Initial Hydrostatic Pressure (A) 2799 P.S.I. Final Hydrostatic Pressure (H) 2776 P.S.I.

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

BLOW Weak for 5 mins. Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 60' Drilling Mud

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 48 Weight 10.2 Maximum Temp. 114 °F
EXTRA EQUIPMENT: Dual Packers ☒ Yes Safety Joint ☒ Yes Jars: Size No Make ☐ Ser. No. ☐
Type Circ. Sub. Plug Did Tool Plug? ☒ No Where? ☐ Did Packer Hold? ☒ Yes
Length Drill Pipe 4975 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ☐ ft. I.D. Weight Pipe ☐ in. Length Drill Collars ☐ ft.
I. D. Drill Collars ☐ in. Length D. S. T. Tool 82 ft.
Remarks

WESTERN TESTING CO., INC. Pressure Data

Date 11-19-63 Test Ticket No. 3217
Recorder No. 1558 Capacity 4200# Location 5047 Ft.
Clock No. 6806 Elevation 2441' K.B. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2799</u> P.S.I.	Opened Tool	<u>11:49 P</u>	<u>11:49 PM</u>
B First Initial Flow Pressure	<u>69</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>69</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1689</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>93</u> Mins.
E Second Initial Flow Pressure	<u>71</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>84</u> P.S.I.			
G Final Closed-in Pressure	<u>1437</u> P.S.I.			
H Final Hydrostatic Mud	<u>2776</u> P.S.I.			

PRESSURE BREAKDOWN

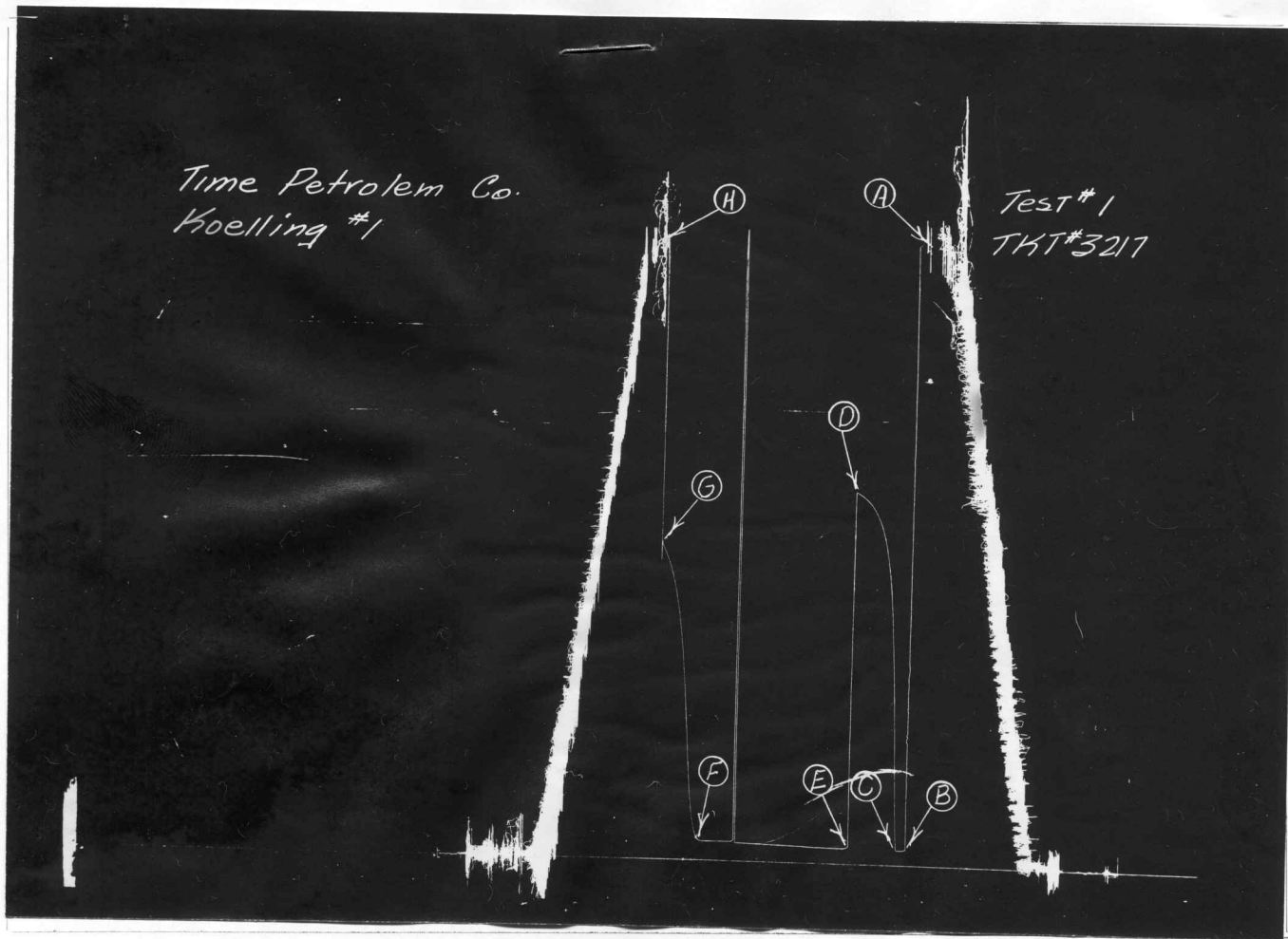
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of - Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of - Min.

Second Flow Pressure
Breakdown: 18 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>0</u>	<u>69</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>84</u>
P 2 <u>5</u>	<u>69</u>	<u>3</u>	<u>449</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>130</u>
P 3		<u>6</u>	<u>914</u>	<u>10</u>	<u>71</u>	<u>6</u>	<u>242</u>
P 4		<u>9</u>	<u>1227</u>	<u>15</u>	<u>71</u>	<u>9</u>	<u>510</u>
P 5		<u>12</u>	<u>1407</u>	<u>20</u>	<u>71</u>	<u>12</u>	<u>805</u>
P 6		<u>15</u>	<u>1508</u>	<u>25</u>	<u>71</u>	<u>15</u>	<u>1014</u>
P 7		<u>18</u>	<u>1573</u>	<u>30</u>	<u>71</u>	<u>18</u>	<u>1171</u>
P 8		<u>21</u>	<u>1613</u>	<u>35</u>	<u>71</u>	<u>21</u>	<u>1280</u>
P 9		<u>24</u>	<u>1641</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>1353</u>
P10		<u>27</u>	<u>1660</u>	<u>45</u>	<u>71</u>	<u>27</u>	<u>1401</u>
P11		<u>30</u>	<u>1681</u>	<u>50</u>	<u>71</u>	<u>30</u>	<u>1437</u>
P12		<u>33</u>	<u>1689</u>	<u>55</u>	<u>71</u>		
P13				<u>60</u>	<u>71</u>		
P14				<u>65</u>	<u>71</u>		
P15				<u>70</u>	<u>71</u>		
P16				<u>75</u>	<u>84</u>		
P17				<u>80</u>	<u>84</u>		
P18				<u>85</u>	<u>84</u>		
P19				<u>90</u>	<u>84</u>		
P20				<u>93</u>	<u>84</u>		

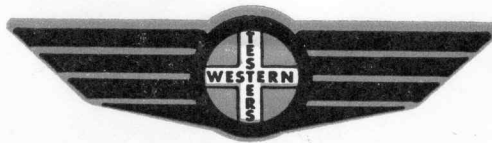


This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2799	PSI
(B)	First Initial Flow Pressure	69	PSI
(C)	First Final Flow Pressure	69	PSI
(D)	Initial Closed-in Pressure	1689	PSI
(E)	Second Initial Flow Pressure	71	PSI
(F)	Second Final Flow Pressure	84	PSI
(G)	Final Closed-in Pressure	1437	PSI
(H)	Final Hydrostatic Mud	2776	PSI



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

Company Time Petroleum Company Lease & Well No. Koelling #1
Elevation 2438' D.F. Ticket Number 3218
Date 11-19-63 Sec. 6 Twp. 29 Range 21W County Ford State Kansas
Test Approved by Toby Elster Western Representative George Tew

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3050' to 5078' Total Depth 5078'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No ☐
Packer Depth 5050 Ft. Size 6 3/4" Packer Depth 5045 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No ☒ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth 5050 Ft. Size 6 3/4"
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 28 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>5069</u> Ft.	Clock No. <u>6806</u>	Depth <u>5072</u> Ft.	Clock No. <u>60</u>
	Top Make <u>Amerada</u> Cap. <u>4200#</u> No. <u>1558</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>60</u>	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 1:37P M
Tool Open I.F.P. From 1:40P M to 1:45P M - Hr 5 Min. From (B) 46 P.S.I. To (C) 46 P.S.I.
Tool Closed I.C.I.P. From 1:45P M. to 2:15P M. - Hr 30 Min. (D) 612 P.S.I.
Tool Open F.F.P. From 2:15P M. to 4:15P M. 2 Hr. - Min. From (E) 50 P.S.I. To (F) 50 P.S.I.
Tool Closed F.C.I.P. From 4:15P M. to 5:00P M. - Hr 45 Min. (G) 61 P.S.I.
Initial Hydrostatic Pressure (A) 2801 P.S.I. Final Hydrostatic Pressure (H) 2795 P.S.I.

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

BLOW Weak for 5 mins. Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 30' Drlg. Mud

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 49 Weight 10.1 Maximum Temp. 114 °F
EXTRA EQUIPMENT: Dual Packers ☒ Yes Safety Joint ☒ Yes Jars: Size No Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? ☒ No Where? _____ Did Packer Hold? ☒ Yes
Length Drill Pipe 5022 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 50 ft.

Remarks

Flushed tool - No help

WESTERN TESTING CO., INC. Pressure Data

Date 11-19-63 Test Ticket No. 3218
Recorder No. 1558 Capacity 82 4200# Location 5069 Ft.
Clock No. 6806 Elevation 2438' D.F. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2801</u>	P.S.I.	<u>1:37 P</u>	<u>1:37 PM</u>
B First Initial Flow Pressure	<u>46</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>46</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>612</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>50</u>	P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>50</u>	P.S.I.		
G Final Closed-in Pressure	<u>61</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2795</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>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min.	Second Flow Pressure Breakdown: <u>24</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min.	Final Shut-In Breakdown: <u>14</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>46</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>50</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>50</u>	<u>3</u>	<u>51</u>
P 3		<u>6</u>	<u>54</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>52</u>
P 4		<u>9</u>	<u>69</u>	<u>15</u>	<u>50</u>	<u>9</u>	<u>53</u>
P 5		<u>12</u>	<u>92</u>	<u>20</u>	<u>50</u>	<u>12</u>	<u>54</u>
P 6		<u>15</u>	<u>128</u>	<u>25</u>	<u>50</u>	<u>15</u>	<u>54</u>
P 7		<u>18</u>	<u>164</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>55</u>
P 8		<u>21</u>	<u>238</u>	<u>35</u>	<u>50</u>	<u>21</u>	<u>55</u>
P 9		<u>24</u>	<u>345</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>56</u>
P10		<u>27</u>	<u>466</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>56</u>
P11		<u>30</u>	<u>612</u>	<u>50</u>	<u>50</u>	<u>30</u>	<u>57</u>
P12				<u>55</u>	<u>50</u>	<u>33</u>	<u>58</u>
P13				<u>60</u>	<u>50</u>	<u>36</u>	<u>59</u>
P14				<u>65</u>	<u>50</u>	<u>39</u>	<u>60</u>
P15				<u>70</u>	<u>50</u>	<u>42</u>	<u>61</u>
P16				<u>75</u>	<u>50</u>		
P17				<u>80</u>	<u>50</u>		
P18				<u>85</u>	<u>50</u>		
P19				<u>90</u>	<u>50</u>		
P20				<u>95</u>	<u>50</u>		
				<u>100</u>	<u>50</u>		
				<u>105</u>	<u>50</u>		
				<u>110</u>	<u>50</u>		
				<u>115</u>	<u>50</u>		
				<u>120</u>	<u>50</u>		

Time Petroleum Co.
Koelling #1

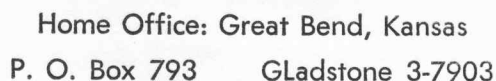
Test # 2
TKT#3218

This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2801	PSI
(B)	First Initial Flow Pressure	46	PSI
(C)	First Final Flow Pressure	46	PSI
(D)	Initial Closed-in Pressure	612	PSI
(E)	Second Initial Flow Pressure	50	PSI
(F)	Second Final Flow Pressure	50	PSI
(G)	Final Closed-in Pressure	61	PSI
(H)	Final Hydrostatic Mud	2795	PSI



WHELAN PRINTERS

WESTERN TESTING CO., INC. Pressure Data

Date 11-23-63 Recorder No. 1558 Capacity 4200 Location 5200 Fr.
Clock No. 6806 Elevation 2438' D.P. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2748</u>	P.S.I.	<u>5:02 P</u>	<u>5:02 PM</u>
B First Initial Flow Pressure	<u>18</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>18</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>109</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>23</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
F Second Final Flow Pressure	<u>27</u>	P.S.I.		
G Final Closed-in Pressure	<u>27</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2739</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.

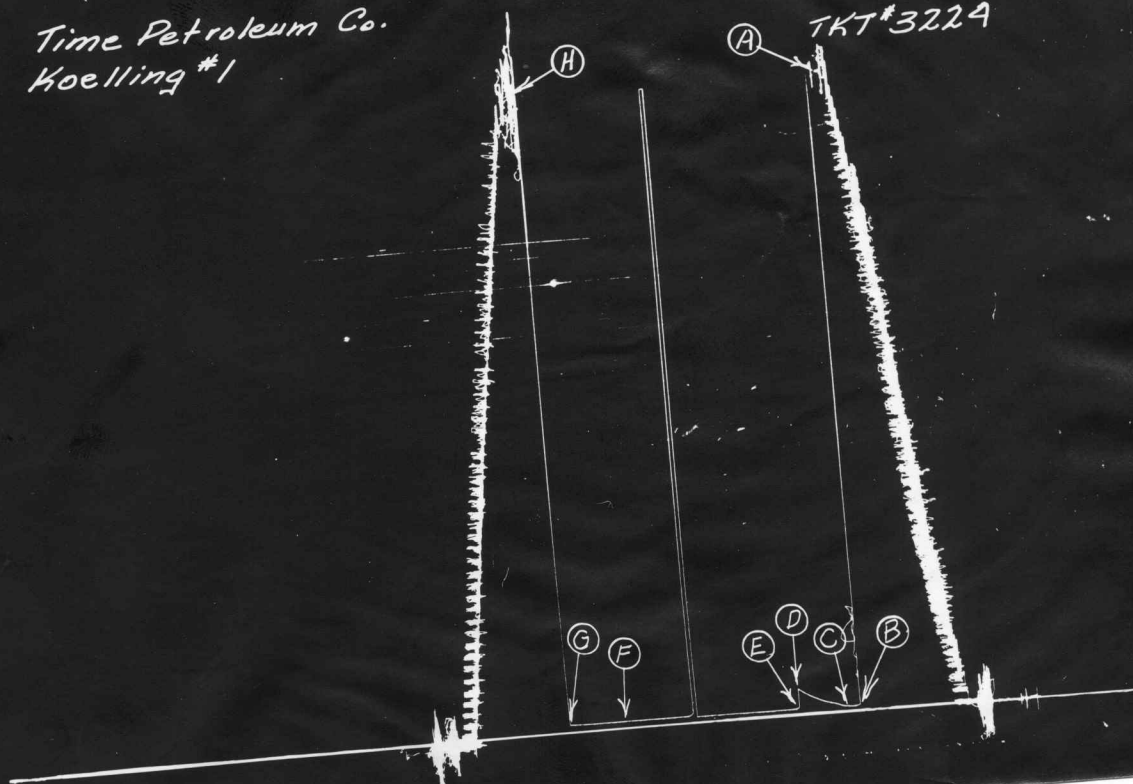
Second Flow Pressure
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of - Min.

Final Shut-In
Breakdown: 5 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>0</u>	<u>18</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>27</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>21</u>	<u>5</u>	<u>23</u>	<u>3</u>	<u>27</u>
P 3		<u>6</u>	<u>29</u>	<u>10</u>	<u>23</u>	<u>6</u>	<u>27</u>
P 4		<u>9</u>	<u>35</u>	<u>15</u>	<u>23</u>	<u>9</u>	<u>27</u>
P 5		<u>12</u>	<u>42</u>	<u>20</u>	<u>23</u>	<u>12</u>	<u>27</u>
P 6		<u>15</u>	<u>48</u>	<u>25</u>	<u>23</u>	<u>15</u>	<u>27</u>
P 7		<u>18</u>	<u>56</u>	<u>30</u>	<u>23</u>		
P 8		<u>21</u>	<u>69</u>	<u>35</u>	<u>23</u>		
P 9		<u>24</u>	<u>80</u>	<u>40</u>	<u>23</u>		
P10		<u>27</u>	<u>92</u>	<u>45</u>	<u>23</u>		
P11		<u>30</u>	<u>109</u>	<u>50</u>	<u>23</u>		
P12				<u>55</u>	<u>23</u>		
P13				<u>60</u>	<u>23</u>		
P14				<u>65</u>	<u>27</u>		
P15				<u>70</u>	<u>27</u>		
P16				<u>75</u>	<u>27</u>		
P17				<u>80</u>	<u>27</u>		
P18				<u>85</u>	<u>27</u>		
P19				<u>90</u>	<u>27</u>		
P20				<u>95</u>	<u>27</u>		
				<u>100</u>	<u>27</u>		
				<u>105</u>	<u>27</u>		
				<u>110</u>	<u>27</u>		
				<u>115</u>	<u>27</u>		
				<u>120</u>	<u>27</u>		

Time Petroleum Co.
Koelling #1

Test # 8
TKT # 3224

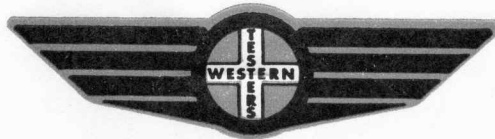


This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2748	PSI
(B)	First Initial Flow Pressure	18	PSI
(C)	First Final Flow Pressure	18	PSI
(D)	Initial Closed-in Pressure	109	PSI
(E)	Second Initial Flow Pressure	23	PSI
(F)	Second Final Flow Pressure	27	PSI
(G)	Final Closed-in Pressure	27	PSI
(H)	Final Hydrostatic Mud	2739	PSI



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

Company Time Petroleum Company Lease & Well No. Hoelling #1
Elevation 2438' D.P. Ticket Number 3225
Date 11-24-63 Sec. 6 Twp. 29 Range 21W County Ford State Kansas
Test Approved by Toby Elster Western Representative George Tow

Formation Test No. 9 O.K. ☒ Misrun ☐ Interval Tested From 5206' to 5235' Total Depth 5235'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐
Packer Depth 5206 Ft. Size 6 3/4" Packer Depth 5201 Ft. Size 6 3/4"
Straddle Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth 5206 Ft. Size 6 3/4"
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" PH Anchor Length 29 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>5226</u> Ft.	Clock No. <u>6806</u>	Depth <u>5229</u> Ft.	Clock No. <u>60</u>
	Top Make <u>Amrad</u> Cap. <u>4200/</u> No. <u>1558</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>4000/</u> No. <u>60</u>	Inside ☐ Outside ☒
Below Straddle:	Depth _____	Clock No. _____	Depth _____	Clock No. _____
	Top Make _____	Cap. _____ No. _____	Bottom Make _____	Cap. _____ No. _____
		Inside ☐ Outside ☒		Inside ☐ Outside ☒

Time Set Packer 7:37A M
Tool Open I.F.P. From 7:40A M to 7:45A M - Hr. 5 Min. From (B) 42 P.S.I. To (C) 42 P.S.I.
Tool Closed I.C.I.P. From 7:45A M. to 8:15A M. - Hr. 30 Min. (D) 1323 P.S.I.
Tool Open F.F.P. From 8:15A M. to 9:25A M. - Hr. 1 Min. From (E) 44 P.S.I. To (F) 48 P.S.I.
Tool Closed F.C.I.P. From 9:25A M. to 9:40A M. - Hr. 15 Min. (G) 59 P.S.I.
Initial Hydrostatic Pressure (A) 2796 P.S.I. Final Hydrostatic Pressure (H) 2787 P.S.I.

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

BLOW Few bubbles when tool opened Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 20' Mud

Reversed Out Yes ☒ No ☐ Mud Type Starch Viscosity 45 Weight 9.8 Maximum Temp. 114 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☒ Jars: Size 10 Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? ☒ Where? _____ Did Packer Hold? ☒
Length Drill Pipe 5184 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 51 ft.

Remarks

WESTERN TESTING CO., INC. Pressure Data

Date 11-21-63 Recorder No. 1558 Capacity 4200 Location 5226 Ft.
Clock No. 6806 Elevation 2438' D.F. Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2796	P.S.I.	7:37 A	7:37 AM
B First Initial Flow Pressure	42	P.S.I.	5	5
C First Final Flow Pressure	42	P.S.I.	30	30
D Initial Closed-in Pressure	1323	P.S.I.	70	60
E Second Initial Flow Pressure	44	P.S.I.	15	10
F Second Final Flow Pressure	48	P.S.I.		
G Final Closed-in Pressure	99	P.S.I.		
H Final Hydrostatic Mud	2787	P.S.I.		
			Opened Tool	
			First Flow Pressure	
			Initial Closed-in Pressure	
			Second Flow Pressure	
			Final Closed-in Pressure	

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 1 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of - Min.

Final Shut-In
Breakdown: 6 Inc.
of 3 mins. and a
final inc. of - Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	42	0	42	0	44	0	48
P 1		3	94	5	44	3	48
P 2	42	6	210	10	44	6	48
P 3		9	356	15	44	9	58
P 4		12	524	20	44	12	53
P 5		15	691	25	48	15	56
P 6		18	874	30	48	18	59
P 7		21	1025	35	48		
P 8		24	1158	40	48		
P 9		27	1248	45	48		
P10		30	1323	50	48		
P11				55	48		
P12				60	48		
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Time Petroleum Co.
Koelling #1

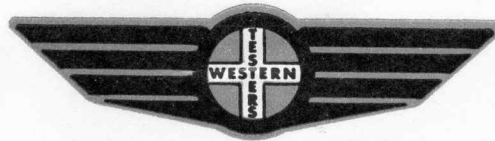
Test #9
TKT#3225

This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2796	PSI
(B)	First Initial Flow Pressure	42	PSI
(C)	First Final Flow Pressure	42	PSI
(D)	Initial Closed-in Pressure	1323	PSI
(E)	Second Initial Flow Pressure	44	PSI
(F)	Second Final Flow Pressure	43	PSI
(G)	Final Closed-in Pressure	59	PSI
(H)	Final Hydrostatic Mud	2787	PSI



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

Company Time Petroleum Company Lease & Well No. Koelling #1
Elevation 2438' D.F. Ticket Number 3051
Date 11-25-63 Sec. 6 Twp. 29 Range 23W County Ford State Kansas
Test Approved by Tobey Elster Western Representative George Tew

Formation Test No. 10 O.K. ☒ Misrun ☐ Interval Tested From 5235' to 5295' Total Depth 5295'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No
Packer Depth 5235 Ft. Size 6 3/4" Packer Depth 5230 Ft. Size 6 3/4"
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth 32' D.B. Ft. Size 27' 5 1/2" Anchor
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 60 Ft. Size 27' 5 1/2" Anchor

RECORDERS	Depth <u>5247</u> Ft.	Clock No. <u>6806</u>	Depth <u>5250</u> Ft.	Clock No. <u>60</u>
	Top Make <u>Amorada</u> Cap. <u>4000#</u> No. <u>1558</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>4000#</u> No. <u>60</u>	Inside ☐ Outside ☒
Below Straddle:	Depth _____	Clock No. _____	Depth _____	Clock No. _____
	Top Make _____ Cap. _____ No. _____	Inside ☐ Outside ☒	Bottom Make _____ Cap. _____ No. _____	Inside ☐ Outside ☒

Time Set Packer 2:49 A M
Tool Open I.F.P. From 2:52A M to 2:57A M - Hr. 5 Min. From (B) 35 P.S.I. To (C) 35 P.S.I.
Tool Closed I.C.I.P. From 2:57A M. to 3:27A M. - Hr. 30 Min. (D) 901 P.S.I.
Tool Open F.F.P. From 3:27A M. to 4:27A M. 1 Hr. - Min. From (E) 37 P.S.I. To (F) 37 P.S.I.
Tool Closed F.C.I.P. From 4:27A M. to 4:57A M. - Hr. 30 Min. (G) 156 P.S.I.
Initial Hydrostatic Pressure (A) 2822 P.S.I. Final Hydrostatic Pressure (H) 2804 P.S.I.

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

BLOW Few bubbles when tool opened Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 15' mud

Reversed Out ☒ Yes ☐ No Mud Type Starch Viscosity 47 Weight 9.8 Maximum Temp. 115 °F
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☒ Jars: Size 10 Make _____ Ser. No. _____
Type Circ. Sub. Plug Did Tool Plug? ☒ No Where? _____ Did Packer Hold? ☒ Yes
Length Drill Pipe 5213 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 82 ft.

Remarks

WESTERN TESTING CO., INC. Pressure Data

Date 11-25-63 Test Ticket No. 3051
 Recorder No. 1558 Capacity 42000 Location 5247 Ft.
 Clock No. 6806 Elevation 2438' D.P. Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2822</u>	P.S.I.	<u>2:49 A</u>	<u>2:49 AM</u>
B First Initial Flow Pressure	<u>35</u>	P.S.I.	<u>5</u>	<u>5</u>
C First Final Flow Pressure	<u>35</u>	P.S.I.	<u>30</u>	<u>31</u>
D Initial Closed-in Pressure	<u>901</u>	P.S.I.	<u>60</u>	<u>62</u>
E Second Initial Flow Pressure	<u>37</u>	P.S.I.	<u>30</u>	<u>27</u>
F Second Final Flow Pressure	<u>37</u>	P.S.I.		
G Final Closed-in Pressure	<u>156</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2804</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 1 Min.

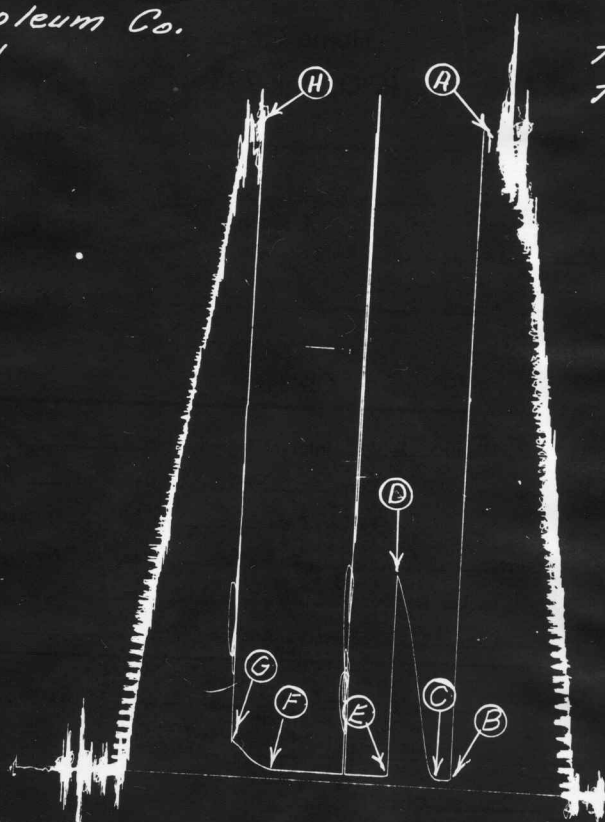
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 2 Min.

Final Shut-In
 Breakdown: 9 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>0</u>	<u>35</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>37</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>44</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>38</u>
P 3		<u>6</u>	<u>88</u>	<u>10</u>	<u>37</u>	<u>6</u>	<u>42</u>
P 4		<u>9</u>	<u>183</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>50</u>
P 5		<u>12</u>	<u>301</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>59</u>
P 6		<u>15</u>	<u>432</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>75</u>
P 7		<u>18</u>	<u>543</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>92</u>
P 8		<u>21</u>	<u>645</u>	<u>35</u>	<u>37</u>	<u>21</u>	<u>118</u>
P 9		<u>24</u>	<u>739</u>	<u>40</u>	<u>37</u>	<u>24</u>	<u>134</u>
P10		<u>27</u>	<u>814</u>	<u>45</u>	<u>37</u>	<u>27</u>	<u>158</u>
P11		<u>30</u>	<u>891</u>	<u>50</u>	<u>37</u>		
P12		<u>31</u>	<u>901</u>	<u>55</u>	<u>37</u>		
P13				<u>60</u>	<u>37</u>		
P14				<u>62</u>	<u>37</u>		
P15							
P16							
P17							
P18							
P19							
P20							

Time Petroleum Co.
Hoelling #1

Test #10
TKT #3050

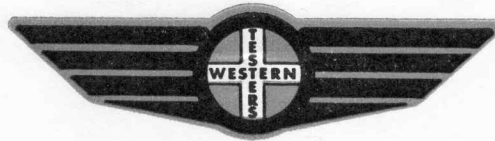


This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2822	PSI
(B)	First Initial Flow Pressure	35	PSI
(C)	First Final Flow Pressure	35	PSI
(D)	Initial Closed-in Pressure	901	PSI
(E)	Second Initial Flow Pressure	37	PSI
(F)	Second Final Flow Pressure	37	PSI
(G)	Final Closed-in Pressure	156	PSI
(H)	Final Hydrostatic Mud	2804	PSI



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

Company Tine Petroleum Company Lease & Well No. Koelling #1
Elevation 2438' D.P. Ticket Number 3052
Date 11-25-63 Sec. 6 Twp. 29 Range 2W County Bord State Kansas
Test Approved by Tobey Elster Western Representative George Tew

Formation Test No. 11 O.K. ☒ Misrun ☐ Interval Tested From 5295' to 5310' Total Depth 5310'
Size Main Hole 7 7/8" Rat Hole None Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 5295' Ft. Size 6 3/4" Packer Depth 5290' Ft. Size 6 3/4"
Straddle Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐
Packer Depth 5295' Ft. Size 6 3/4"
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 15 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>5300'</u> Ft.	Clock No. <u>6806</u>	Depth <u>5302</u> Ft.	Clock No. <u>60</u>
	Top Make <u>Lucas</u> Cap. <u>4200'</u> No. <u>1558</u>	Inside ☐ Outside ☒	Bottom Make <u>Western</u> Cap. <u>4000'</u> No. <u>60</u>	Inside ☐ Outside ☒
Below Straddle:	Depth <u> </u> Clock No. <u> </u>	Inside ☐ Outside ☒	Depth <u> </u> Ft. Clock No. <u> </u>	Inside ☐ Outside ☒
	Top Make <u> </u> Cap. <u> </u> No. <u> </u>	Inside ☐ Outside ☒	Bottom Make <u> </u> Cap. <u> </u> No. <u> </u>	Inside ☐ Outside ☒

Time Set Packer 2:17 P M
Tool Open I.F.P. From 2:20P M to 2:25P M - Hr. 5 Min. From (B) 29 P.S.I. To (C) 29 P.S.I.
Tool Closed I.C.I.P. From 2:25P M. to 2:55P M. - Hr. 30 Min. (D) 1713 P.S.I.
Tool Open F.F.P. From 2:55P M. to 4:25P M. 1 Hr. 30 Min. From (E) 52 P.S.I. To (F) 75 P.S.I.
Tool Closed F.C.I.P. From 4:25P M. to 4:55P M. - Hr. 30 Min. (G) 1351 P.S.I.
Initial Hydrostatic Pressure (A) 2812 P.S.I. Final Hydrostatic Pressure (H) 2808 P.S.I.

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

BLOW Few bubbles when tool opened Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 120' watery mud

Reversed Out Yes ☒ No ☐ Mud Type Starch Viscosity 47 Weight 9.8 Maximum Temp. 113 °F
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size No Make Ser. No.
Type Circ. Sub. Plug Did Tool Plug? No Where? Did Packer Hold? Yes
Length Drill Pipe 5183 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 32 ft. I.D. Weight Pipe in. Length Drill Collars 90 ft.
I. D. Drill Collars 5.25 in. Length D. S. T. Tool ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 11-25-63

Test Ticket No. 3052

Recorder No. 1558 Capacity 4200 Location 5300 Ft.

Clock No. 6806 Elevation 2130' D.F. Well Temperature 113 °F

Point	Pressure	Given	Computed
A Initial Hydrostatic Mud	2812 P.S.I.	2:17 P	2:17 PM
B First Initial Flow Pressure	29 P.S.I.	5 Mins.	5 Mins.
C First Final Flow Pressure	29 P.S.I.	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1713 P.S.I.	90 Mins.	90 Mins.
E Second Initial Flow Pressure	52 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	75 P.S.I.		
G Final Closed-in Pressure	1351 P.S.I.		
H Final Hydrostatic Mud	2808 P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: _____ Inc.
of _____ mins. and a
final inc. of _____ Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of - Min.

Second Flow Pressure
Breakdown: _____ Inc.
of _____ mins. and a
final inc. of _____ Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	29	0	29	0	52	0	75
P 2	5	29	3	1014	5	52	3	383
P 3			6	1346	10	53	6	776
P 4			9	1466	15	58	9	991
P 5			12	1535	20	63	12	1096
P 6			15	1582	25	64	15	1173
P 7			18	1618	30	75	18	1225
P 8			21	1647	35	75	21	1267
P 9			24	1668	40	75	24	1298
P 10			27	1685	45	75	27	1328
P 11			30	1696	50	75	30	1351
P 12			33	1713	55	75		
P 13					60	75		
P 14					65	75		
P 15					70	75		
P 16					75	75		
P 17					80	75		
P 18					85	75		
P 19					90	75		
P 20								

Time Petroleum Co.
Koelling #1

Test #11
TKT#3052

This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2812	PSI
(B)	First Initial Flow Pressure	29	PSI
(C)	First Final Flow Pressure	29	PSI
(D)	Initial Closed-in Pressure	1713	PSI
(E)	Second Initial Flow Pressure	52	PSI
(F)	Second Final Flow Pressure	75	PSI
(G)	Final Closed-in Pressure	1351	PSI
(H)	Final Hydrostatic Mud	2808	PSI