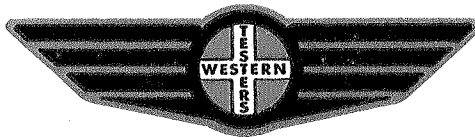


15-039-20206



24-4s-27w

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

Company Messman-Rinehart Oil Co. Lease & Well No. Munson #2
Elevation 2549 Kelly Bushings Formation Tarkio Effective Pay _____ Ft. Ticket No. 15407
Date 3-5-71 Sec. 24 Twp. 4S Range 27W County Decatur State Kansas
Test Approved by J. G. Klein Western Representative Kenneth Cheney

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3164' to 3202' Total Depth 3202'
Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. Damaged Yes No Conv. B.T. _____ Damaged Yes No
Top Packer Depth 3159 Ft. Size 6 3/4" Packer Depth 3164 Ft. Size 6 3/4"
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Tool Size 5 1/2" O.D. Tool Jr. Size 4 1/2" F.H. Anchor Length 38 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3194 Ft. Clock No. 9725 Depth 3196 Ft. Clock No. 6859
Top Make Kuster Cap. 4150 No. 2607 Inside Outside _____ Bottom Make Kuster Cap. 4150 No. 969 Inside Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 12:43 AM
Tool Open I.F.P. From 12:45 M. to 12:55A M. Hr. 10 Min. From (B) 27 P.S.I. To (C) 29 P.S.I.
Tool Closed I.C.I.P. From 12:55 M. to 1:25A M. Hr. 30 Min. (D) 1025 P.S.I.
Tool Open F.F.P. From 1:25 M. to 3:25A M. 2 Hr. Min. From (E) 35 P.S.I. To (F) 53 P.S.I.
Tool Closed F.C.I.P. From 3:25 M. to 4:10A M. Hr. 45 Min. (G) 887 P.S.I.
Initial Hydrostatic Pressure (A) 1689 P.S.I. Final Hydrostatic Pressure (H) 1651 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak thru out test Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 120 feet gas in pipe
30 feet muddy oil
30 feet heavy oil cut mud

Reversed Out Yes No _____ Mud Type Chem. Viscosity 40 Weight 9.8 Water Loss 16.4 cc. Maximum Temp. 99 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 1967 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1177 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 58 ft.

Remarks _____

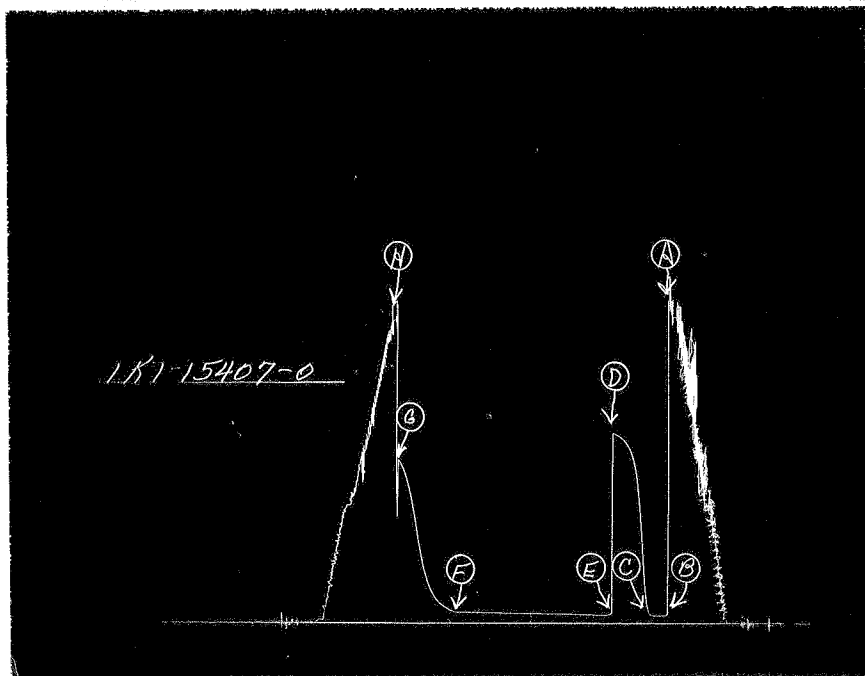
WESTERN TESTING CO., INC.
Pressure Data

Date 3-5-71 Test Ticket No. 15407
 Recorder No. 2607 Capacity 4150 Location 3194 Ft.
 Clock No. 9725 Elevation 2549 Kelly Bushings Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1689</u>	P.S.I.	<u>12:43</u> A.	
B First Initial Flow Pressure	<u>27</u>	P.S.I.	<u>10</u>	<u>11</u>
C First Final Flow Pressure	<u>29</u>	P.S.I.	<u>30</u>	<u>33</u>
D Initial Closed-in Pressure	<u>1025</u>	P.S.I.	<u>120</u>	<u>120</u>
E Second Initial Flow Pressure	<u>35</u>	P.S.I.	<u>45</u>	<u>45</u>
F Second Final Flow Pressure	<u>53</u>	P.S.I.		
G Final Closed-in Pressure	<u>887</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1651</u>	P.S.I.		

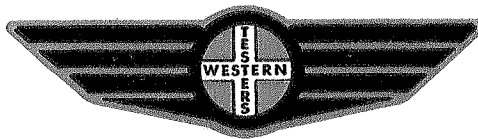
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>24</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>1</u> Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>27</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>53</u>
P 2 <u>5</u>	<u>27</u>	<u>3</u>	<u>78</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>54</u>
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>268</u>	<u>10</u>	<u>36</u>	<u>6</u>	<u>63</u>
P 4 <u>11</u>	<u>29</u>	<u>9</u>	<u>524</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>71</u>
P 5 _____		<u>12</u>	<u>760</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>90</u>
P 6 _____		<u>15</u>	<u>878</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>112</u>
P 7 _____		<u>18</u>	<u>935</u>	<u>30</u>	<u>38</u>	<u>18</u>	<u>139</u>
P 8 _____		<u>21</u>	<u>968</u>	<u>35</u>	<u>40</u>	<u>21</u>	<u>173</u>
P 9 _____		<u>24</u>	<u>993</u>	<u>40</u>	<u>40</u>	<u>24</u>	<u>224</u>
P10 _____		<u>27</u>	<u>1008</u>	<u>45</u>	<u>41</u>	<u>27</u>	<u>312</u>
P11 _____		<u>30</u>	<u>1020</u>	<u>50</u>	<u>41</u>	<u>30</u>	<u>419</u>
P12 _____		<u>33</u>	<u>1025</u>	<u>55</u>	<u>42</u>	<u>33</u>	<u>574</u>
P13 _____				<u>60</u>	<u>42</u>	<u>36</u>	<u>697</u>
P14 _____				<u>65</u>	<u>43</u>	<u>39</u>	<u>789</u>
P15 _____				<u>70</u>	<u>44</u>	<u>46</u>	<u>847</u>
P16 _____				<u>75</u>	<u>45</u>	<u>45</u>	<u>887</u>
P17 _____				<u>80</u>	<u>46</u>		
P18 _____				<u>85</u>	<u>46</u>		
P19 _____				<u>90</u>	<u>47</u>		
P20 _____				<u>95</u>	<u>48</u>		
				<u>100</u>	<u>49</u>		
				<u>105</u>	<u>49</u>		
				<u>110</u>	<u>50</u>		
				<u>115</u>	<u>52</u>		
				<u>120</u>	<u>53</u>		



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1783	1689	PSI
(B) First Initial Flow Pressure	27	27	PSI
(C) First Final Flow Pressure	31	29	PSI
(D) Initial Closed-in Pressure	1029	1025	PSI
(E) Second Initial Flow Pressure	31	35	PSI
(F) Second Final Flow Pressure	48	53	PSI
(G) Final Closed-in Pressure	882	887	PSI
(H) Final Hydrostatic Mud	1773	1651	PSI



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

Company Messman-Rinehart Oil Co. Lease & Well No. Munson #2
Elevation 2549 Kelly Bushings Formation Tarkio Effective Pay _____ Ft. Ticket No. 15408
Date 3-5-71 Sec. 24 Twp. 4S Range 27W County Decatur State Kansas
Test Approved by J. G. Klein Western Representative Kenneth Cheney

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3207' to 3217' Total Depth 3217'
Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 3202 Ft. Size 6 3/4" Packer Depth 3207 Ft. Size 6 3/4"
Straddle Yes _____ No Conv. _____ B.T. Damaged Yes _____ No

Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 10 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3211 Ft. Clock No. 9725 Depth 3213 Ft. Clock No. 6859
Top Make Kuster Cap. 4150 No. 2607 Inside Outside _____ Bottom Make Kuster Cap. 4150 No. 969 Inside Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 11:53 A.M.
Tool Open I.F.P. From 11:55 M. to 12:05P M. Hr. 10 Min. From (B) 65 P.S.I. To (C) 67 P.S.I.
Tool Closed I.C.I.P. From 12:05 M. to 12:35P M. Hr. 30 Min. (D) 1029 P.S.I.
Tool Open F.F.P. From 12:35 M. to 1:55P M. Hr. 30 Min. From (E) 84 P.S.I. To (F) 92 P.S.I.
Tool Closed F.C.I.P. From 1:55 M. to 2:40P M. Hr. 45 Min. (G) 933 P.S.I.
Initial Hydrostatic Pressure (A) 1676 P.S.I. Final Hydrostatic Pressure (H) 1636 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Very weak Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 140 feet oil cut mud with trace of free oil
(About 80 feet of mud when tool slid)

Reversed Out Yes No _____ Mud Type Chem. Viscosity 40 Weight 9.8 Water Loss 16.4 cc. Maximum Temp. 98 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 2010 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1177 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 30 ft.

Remarks Slid 30 feet to bottom

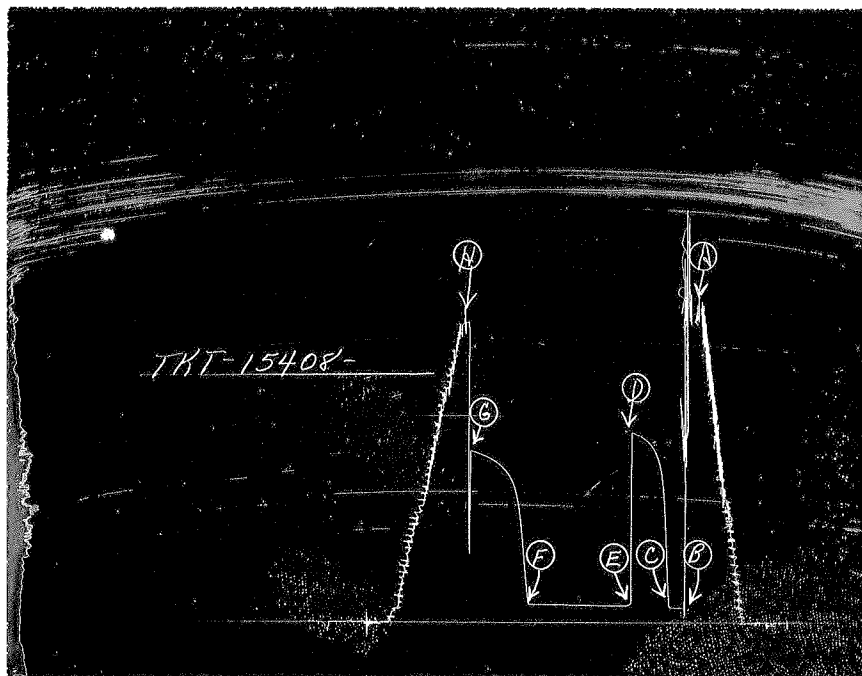
WESTERN TESTING CO., INC.
Pressure Data

Date 3-5-71 Test Ticket No. 15408
 Recorder No. 2607 Capacity 4150 Location 3211 Ft.
 Clock No. 9725 Elevation 2549 Kelly Bushings Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1676</u>	P.S.I.	<u>11:53 A. M.</u>	
B First Initial Flow Pressure	<u>65</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1029</u>	P.S.I.	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>84</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>92</u>	P.S.I.		
G Final Closed-in Pressure	<u>933</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1636</u>	P.S.I.		

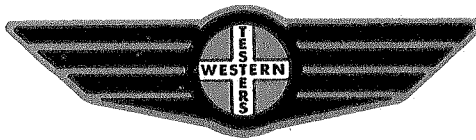
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>65</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>84</u>	<u>0</u>	<u>92</u>
P 2 <u>5</u>	<u>66</u>	<u>3</u>	<u>483</u>	<u>5</u>	<u>84</u>	<u>3</u>	<u>275</u>
P 3 <u>10</u>	<u>67</u>	<u>6</u>	<u>774</u>	<u>10</u>	<u>84</u>	<u>6</u>	<u>500</u>
P 4 _____		<u>9</u>	<u>874</u>	<u>15</u>	<u>84</u>	<u>9</u>	<u>658</u>
P 5 _____		<u>12</u>	<u>924</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>739</u>
P 6 _____		<u>15</u>	<u>958</u>	<u>25</u>	<u>84</u>	<u>15</u>	<u>787</u>
P 7 _____		<u>18</u>	<u>983</u>	<u>30</u>	<u>85</u>	<u>18</u>	<u>816</u>
P 8 _____		<u>21</u>	<u>997</u>	<u>35</u>	<u>85</u>	<u>21</u>	<u>840</u>
P 9 _____		<u>24</u>	<u>1008</u>	<u>40</u>	<u>85</u>	<u>24</u>	<u>857</u>
P10 _____		<u>27</u>	<u>1020</u>	<u>45</u>	<u>86</u>	<u>27</u>	<u>874</u>
P11 _____		<u>30</u>	<u>1029</u>	<u>50</u>	<u>87</u>	<u>30</u>	<u>887</u>
P12 _____				<u>55</u>	<u>89</u>	<u>33</u>	<u>899</u>
P13 _____				<u>60</u>	<u>90</u>	<u>36</u>	<u>910</u>
P14 _____				<u>65</u>	<u>91</u>	<u>39</u>	<u>918</u>
P15 _____				<u>70</u>	<u>91</u>	<u>42</u>	<u>925</u>
P16 _____				<u>75</u>	<u>91</u>	<u>45</u>	<u>933</u>
P17 _____				<u>80</u>	<u>92</u>		
P18 _____				<u>85</u>	<u>92</u>		
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1678	1676	PSI
(B) First Initial Flow Pressure	63	65	PSI
(C) First Final Flow Pressure	63	67	PSI
(D) Initial Closed-in Pressure	1029	1029	PSI
(E) Second Initial Flow Pressure	80	84	PSI
(F) Second Final Flow Pressure	84	92	PSI
(G) Final Closed-in Pressure	931	933	PSI
(H) Final Hydrostatic Mud	1670	1636	PSI



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

Company Messman-Rinehart Oil Company Lease & Well No. Munson #2
Elevation 2549 Kelly Bushings Formation Howard Effective Pay _____ Ft. Ticket No. 15409
Date 3-6-71 Sec. 24 Twp. 4S Range 27W County Decatur State Kansas
Test Approved by J. G. Klein Western Representative Kenneth Cheney
Formation Test No. 3 O.K. Misrun _____ Interval Tested From 3230' to 3245' Total Depth 3245'
Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 3225 Ft. Size 6 3/4" Packer Depth 3230 Ft. Size 6 3/4"
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 15 Ft. Size 5 1/2" O.D.
RECORDERS Depth 3237 Ft. Clock No. 9725 Depth 3239 Ft. Clock No. 6859
Top Make Kuster Cap. 4150 No. 2607 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Depth _____ Ft. Clock No. _____
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 12:28 A. M
Tool Open I.F.P. From 12:30 M. to 12:45A M. Hr. 15 Min. From (B) 18 P.S.I. To (C) 27 P.S.I.
Tool Closed I.C.I.P. From 12:45 M. to 1:30A M. Hr. 45 Min. (D) 763 P.S.I.
Tool Open F.F.P. From 1:30 M. to 3:30A M. 2 Hr. Min. From (E) 35 P.S.I. To (F) 74 P.S.I.
Tool Closed F.C.I.P. From 3:30 M. to 4:30A M. 1 Hr. Min. (G) 726 P.S.I.
Initial Hydrostatic Pressure (A) 1716 P.S.I. Final Hydrostatic Pressure (H) 1693 P.S.I.

SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak thru out test Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 5 feet free oil
120 feet muddy water

Reversed Out Yes No _____ Mud Type Chem. Viscosity 42 Weight 9.8 Water Loss 7.0 cc. Maximum Temp. 103 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 2033 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1177 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 35 ft.

Remarks _____

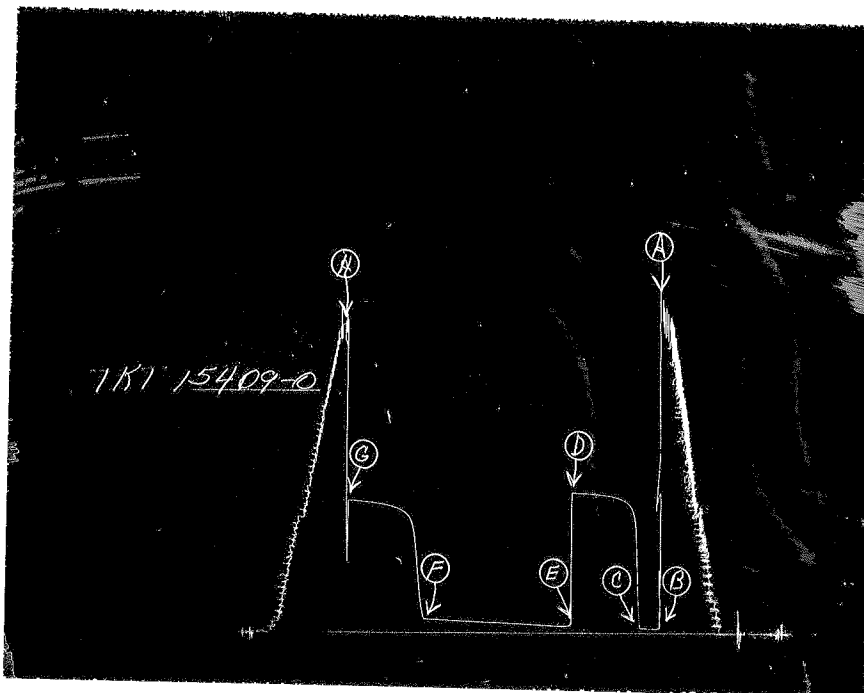
WESTERN TESTING CO., INC.
Pressure Data

Date 3-6-71 Test Ticket No. 15409
 Recorder No. 2607 Capacity 4150 Location 3237 Ft.
 Clock No. 9725 Elevation 2549 Kelly Bushings Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1716	P.S.I.	12:28 A.M.	
B First Initial Flow Pressure	18	P.S.I.	15 Mins.	15 Mins.
C First Final Flow Pressure	27	P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	763	P.S.I.	120 Mins.	118 Mins.
E Second Initial Flow Pressure	35	P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	74	P.S.I.		
G Final Closed-in Pressure	726	P.S.I.		
H Final Hydrostatic Mud	1693	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of <u>3</u> Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	18		0	27	0	74
P 2	5	23	3	572	5	35	133
P 3	10	24	6	676	10	35	353
P 4	15	27	9	705	15	36	539
P 5			12	720	20	37	620
P 6			15	729	25	42	649
P 7			18	738	30	44	666
P 8			21	743	35	46	678
P 9			24	747	40	48	685
P10			27	749	45	50	691
P11			30	753	50	52	698
P12			33	755	55	54	703
P13			36	757	60	56	708
P14			39	760	65	58	710
P15			42	762	70	61	712
P16			45	763	75	63	714
P17					80	65	718
P18					85	67	720
P19					90	69	722
P20					95	71	724
					100	72	726
					105	73	
					110	73	
					115	73	
					118	74	



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1716	1716	PSI
(B) First Initial Flow Pressure	21	18	PSI
(C) First Final Flow Pressure	27	27	PSI
(D) Initial Closed-in Pressure	764	763	PSI
(E) Second Initial Flow Pressure	31	35	PSI
(F) Second Final Flow Pressure	69	74	PSI
(G) Final Closed-in Pressure	722	726	PSI
(H) Final Hydrostatic Mud	1693	1693	PSI