



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

Company Messman-Rinehart Oil Company Lease & Well No. Karl1n #3
Elevation 2076 Kelly Bushings Formation Toronto Effective Pay _____ Ft. Ticket No. 16506
Date 8-19-72 Sec. 31 Twp. 12S Range 17W County E111s State Kansas
Test Approved by J. G. Klein Western Representative James W. Holloway

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3309' to 3367' Total Depth 3367'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. _____ B.T. Damaged _____ Yes No
Packer Depth 3304 Ft. Size 6 3/4" Packer Depth 3309 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 58 Ft. Size 5 1/2" & 4 1/2" O.D.

RECORDERS Depth 3359 Ft. Clock No. 9725 Depth 3361 Ft. Clock No. 6774
Top Make Kuster Cap. 4150 No. 2607 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1558 ~~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 8:33 P. M
Tool Open I.F.P. From 8:36 M. to 8:56P. M. Hr. 20 Min. From (B) 67 P.S.I. To (C) 125 P.S.I.
Tool Closed I.C.I.P. From 8:56 M. to 9:26P. M. Hr. 30 Min. (D) 908 P.S.I.
Tool Open F.F.P. From 9:26 M. to 10:11P. M. Hr. 45 Min. From (E) 158 P.S.I. To (F) 224 P.S.I.
Tool Closed F.C.I.P. From 10:11 M. to 10:56P. M. Hr. 45 Min. (G) 796 P.S.I.
Initial Hydrostatic Pressure (A) 1869 P.S.I. Final Hydrostatic Pressure (H) 1827 P.S.I.

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

BLOW Strong throughout Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 50 feet slightly oil cut gassy mud 60 feet heavy oil and gas cut mud (40% oil) 360 feet gassy oil slightly mud cut 90 feet muddy gassy oil 360 feet gas in pipe

Reversed Out _____ Yes No _____ Mud Type Starch Viscosity 46 Weight 10.0 Water Loss 10.0 cc. Maximum Temp. 109 °F
Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 2269 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1020 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I.D. Drill Collars _____ in. Length D.S.T. Tool 78 ft.

Remarks _____

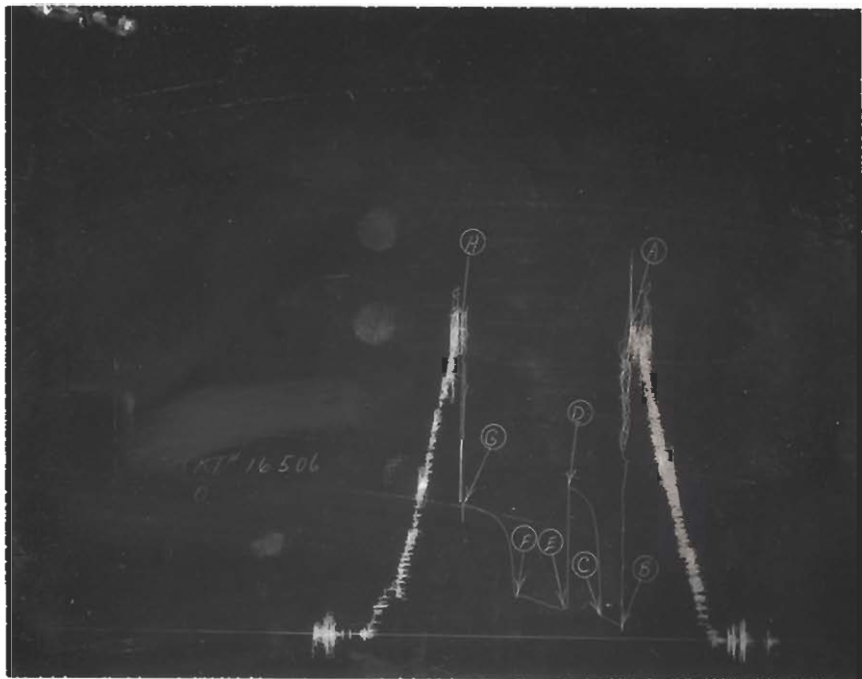
WESTERN TESTING CO., INC.
Pressure Data

Date 8-19-72 Test Ticket No. 16506
 Recorder No. 2607 Capacity 4150 Location 3359 Ft.
 Clock No. 9725 Elevation 2076 Kelly Bushings Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1869	P.S.I.	8:36 P.	M
B First Initial Flow Pressure	67	P.S.I.	20	Mins. 20 Mins.
C First Final Flow Pressure	125	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	908	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	158	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	224	P.S.I.		
G Final Closed-in Pressure	796	P.S.I.		
H Final Hydrostatic Mud	1827	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>9</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>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>125</u>	<u>0</u>	<u>158</u>	<u>0</u>	<u>224</u>
P 2	<u>5</u>	<u>3</u>	<u>508</u>	<u>5</u>	<u>159</u>	<u>3</u>	<u>449</u>
P 3	<u>10</u>	<u>6</u>	<u>683</u>	<u>10</u>	<u>162</u>	<u>6</u>	<u>581</u>
P 4	<u>15</u>	<u>9</u>	<u>758</u>	<u>15</u>	<u>168</u>	<u>9</u>	<u>637</u>
P 5	<u>20</u>	<u>12</u>	<u>804</u>	<u>20</u>	<u>174</u>	<u>12</u>	<u>675</u>
P 6		<u>15</u>	<u>831</u>	<u>25</u>	<u>190</u>	<u>15</u>	<u>703</u>
P 7		<u>18</u>	<u>858</u>	<u>30</u>	<u>201</u>	<u>18</u>	<u>725</u>
P 8		<u>21</u>	<u>874</u>	<u>35</u>	<u>209</u>	<u>21</u>	<u>739</u>
P 9		<u>24</u>	<u>887</u>	<u>40</u>	<u>218</u>	<u>24</u>	<u>751</u>
P10		<u>27</u>	<u>897</u>	<u>45</u>	<u>224</u>	<u>27</u>	<u>759</u>
P11		<u>30</u>	<u>908</u>			<u>30</u>	<u>768</u>
P12						<u>33</u>	<u>774</u>
P13						<u>36</u>	<u>778</u>
P14						<u>39</u>	<u>787</u>
P15						<u>42</u>	<u>791</u>
P16						<u>45</u>	<u>796</u>
P17							
P18							
P19							
P20							





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

Company Messman-Rinehart Oil Company Lease & Well No. Karlin #3
Elevation 2076 Kelly Bushings Formation Lansing Effective Pay _____ Ft. Ticket No. 16507
Date 8-20-72 Sec 31 Twp. 12S Range 17W County Ellis State Kansas
Test Approved by J. G. Klein Western Representative James W. Holloway

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3375' to 3410' Total Depth 3410'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth 3770 Ft. Size 6 3/4" Packer Depth 3775 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 35 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3402 Ft. Clock No. 9725 Depth 3404 Ft. Clock No. 6774
Top Make Kuster Cap 4150 No. 2607 ~~Inside~~ Outside Bottom Make Kuster Cap 4200 No. 1558 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap _____ No. _____ Inside _____ Outside _____

Time Set Packer 1:44 P.M.
Tool Open I.F.P. From 1:47 M. to 2:07P. M. Hr. 20 Min. From (B) 46 P.S.I. To (C) 53 P.S.I.
Tool Closed I.C.I.P. From 2:07 M. to 2:37P. M. Hr. 30 Min. (D) 643 P.S.I.
Tool Open F.F.P. From 2:37 M. to 3:37P. M. 60 Hr. Min. From (E) 71 P.S.I. To (F) 95 P.S.I.
Tool Closed F.C.I.P. From 3:37 M. to 4:22P. M. Hr. 45 Min. (G) 603 P.S.I.
Initial Hydrostatic Pressure (A) 1989 P.S.I. Final Hydrostatic Pressure (H) 1971 P.S.I.

SURFACE Size Choke 3/8 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. 110 feet muddy salt water with show of oil

Reversed Out Yes _____ No _____ Mud Type Starch Viscosity 56 Weight 10 Water Loss 7.6 cc. Maximum Temp. 109 °F
Type Circ. Sub Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 2235 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1020 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I.D. Drill Collars _____ in. Length D.S.T. Tool 55 ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 8-29-72 Test Ticket No. 16507
 Recorder No. 2607 Capacity 4150 Location 3402 Ft.
 Clock No. 9725 Elevation 2076 Kelly Bushings Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1989</u>	P.S.I.	<u>1:47 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>46</u>	P.S.I.	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>53</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>643</u>	P.S.I.	<u>60</u> Mins.	<u>59</u> Mins.
E Second Initial Flow Pressure	<u>71</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>95</u>	P.S.I.		
G Final Closed-in Pressure	<u>603</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1971</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>11</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>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>4</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>95</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>290</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>211</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>489</u>	<u>10</u>	<u>71</u>	<u>6</u>	<u>356</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>552</u>	<u>15</u>	<u>73</u>	<u>9</u>	<u>438</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>583</u>	<u>20</u>	<u>75</u>	<u>12</u>	<u>489</u>
P 6		<u>15</u>	<u>604</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>521</u>
P 7		<u>18</u>	<u>616</u>	<u>30</u>	<u>80</u>	<u>18</u>	<u>543</u>
P 8		<u>21</u>	<u>625</u>	<u>35</u>	<u>83</u>	<u>21</u>	<u>556</u>
P 9		<u>24</u>	<u>631</u>	<u>40</u>	<u>86</u>	<u>24</u>	<u>568</u>
P10		<u>27</u>	<u>637</u>	<u>45</u>	<u>89</u>	<u>27</u>	<u>579</u>
P11		<u>30</u>	<u>643</u>	<u>50</u>	<u>91</u>	<u>30</u>	<u>585</u>
P12				<u>55</u>	<u>93</u>	<u>33</u>	<u>591</u>
P13				<u>59</u>	<u>95</u>	<u>36</u>	<u>595</u>
P14						<u>39</u>	<u>599</u>
P15						<u>42</u>	<u>601</u>
P16						<u>45</u>	<u>603</u>
P17							
P18							
P19							
P20							

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H

A

S

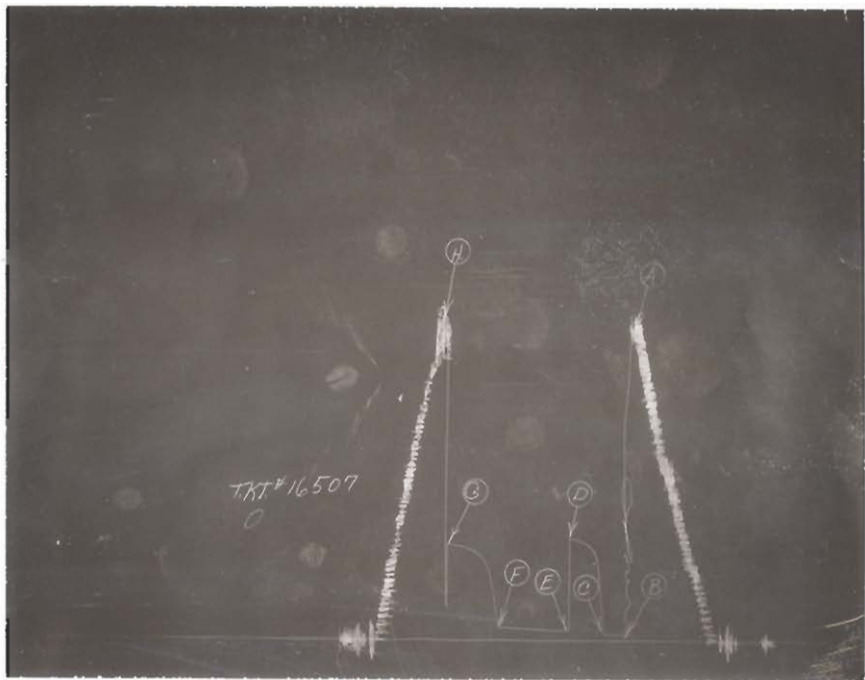
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F

E

C

B





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P. O. Box 793 (316) 793-7903

Company **Messman-Rinehart Oil Company** Lease & Well No. **Karlin #3**
Elevation **2076 Kelly Bushings** Formation **Lansing** Effective Pay _____ Ft. Ticket No. **16508**
Date **8-21-72** Sec. **31** Twp. **12S** Range **17W** County **Ellis** State **Kansas**
Test Approved by **J. G. Klein** Western Representative **James W. Holloway**
Formation Test No. **3** O.K. Misrun _____ Interval Tested From **3410'** to **3454'** Total Depth **3454**
Size Main Hole **7 7/8** Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. _____ B.T. Damaged _____ Yes No
Packer Depth **3405** Ft. Size **6 3/4"** Packer Depth **3410** 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 **44** Ft. Size **5 1/2" O.D.**
RECORDERS Depth **3446** Ft. Clock No. **9725** Depth **3448** Ft. Clock No. **6774**
Top Make **Kuster** Cap. **4150** No. **2607** ~~Inside~~ ~~Outside~~ Bottom Make **Kuster** Cap. **4200** No. **1558** ~~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 **4:36** **A.** M
Tool Open I.F.P. From **4:39** M. to **4:59A.** M. Hr. **20** Min. From (B) **13** P.S.I. To (C) **18** P.S.I.
Tool Closed I.C.I.P. From **4:59** M. to **5:29A.** M. Hr. **30** Min. (D) **525** P.S.I.
Tool Open F.F.P. From **5:29** M. to **5:59A.** M. Hr. **30** Min. From (E) **41** P.S.I. To (F) **41** P.S.I.
Tool Closed F.C.I.P. From **5:59** M. to **6:44A.** M. Hr. **45** Min. (G) **523** P.S.I.
Initial Hydrostatic Pressure (A) **1913** P.S.I. Final Hydrostatic Pressure (H) **1894** 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 for 20 min.** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. **30 feet mud**

Reversed Out _____ Yes No _____ Mud Type **Starch** Viscosity **56** Weight **10.0** Water Loss **7.6** cc. Maximum Temp. **109** °F
Type Circ. Sub. **Plug** Safety Joint **No** Jars: _____ Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **Yes** Did Packer Hold? **Yes** Did Tool Plug? **No** Where? _____
Length Drill Pipe **2370** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **1020** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.
I.D. Drill Collars _____ in. Length D.S.T. Tool **64** ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

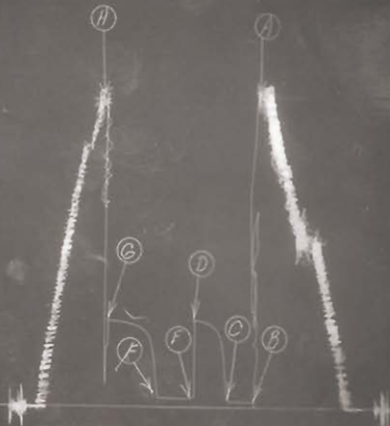
Date 8-21-72 Test Ticket No. 16508
 Recorder No. 2607 Capacity 4150 Location 3446 Ft.
 Clock No. 9725 Elevation 2076 Kelly Bushings Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1913	P.S.I.	4:39 A. M.	
B First Initial Flow Pressure	13	P.S.I.	20 Mins.	20 Mins.
C First Final Flow Pressure	18	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	525	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	41	P.S.I.	45 Mins.	45 Mins.
F Second Final Flow Pressure	41	P.S.I.		
G Final Closed-in Pressure	523	P.S.I.		
H Final Hydrostatic Mud	1894	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	13	0	18	0	41
P 2	13	3	201	3	196
P 3	15	6	345	6	324
P 4	17	9	424	9	406
P 5	18	12	464	12	441
P 6		15	487	15	464
P 7		18	501	18	477
P 8		21	509	21	487
P 9		24	516	24	495
P10		27	521	27	502
P11		30	525	30	508
P12				33	513
P13				36	516
P14				39	518
P15				42	521
P16				45	523
P17					
P18					
P19					
P20					

TKT 16508
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Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Company Lease & Well No. Karlin #3
Elevation 2076 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 16509
Date 8-22-72 Sec. 31 Twp. 12S Range 17W County Ellis State Kansas
Test Approved by J. G. Klein Western Representative James W. Holloway

Formation Test No. 4 O.K. Misrun _____ Interval Tested From 3497' to 3587' Total Depth 3587'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth 3492 Ft. Size 6 3/4" Packer Depth 3497 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 90 Ft. Size 5 1/2" & 4 1/2" O.D.

RECORDERS Depth 3579 Ft. Clock No. 9725 Depth 3581 Ft. Clock No. 6774
Top Make Kuster Cap 4150 No. 2607 ~~Inside~~ Outside Bottom Make Kuster Cap 4200 No. 1558 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Depth _____ Ft. Clock No. _____
Top Make _____ Cap _____ No. _____ Inside Bottom Make _____ Cap _____ No. _____ Outside

Time Set Packer 1:00 P. M
Tool Open I.F.P. From 1:03 M. to 1:23P. M. Hr. 20 Min. From (B) 67 P.S.I. To (C) 67 P.S.I.
Tool Closed I.C.I.P. From 1:23 M. to 1:53P. M. Hr. 30 Min. (D) 573 P.S.I.
Tool Open F.F.P. From 1:53 M. to 2:23P. M. Hr. 30 Min. From (E) 74 P.S.I. To (F) 74 P.S.I.
Tool Closed F.C.I.P. From 2:23 M. to 3:08P. M. Hr. 45 Min. (G) 447 P.S.I.
Initial Hydrostatic Pressure (A) 1966 P.S.I. Final Hydrostatic Pressure (H) 1942 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 for 20 min. Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 20 feet mud with spots of oil on top

Reversed Out Yes No _____ Mud Type Starch Viscosity 52 Weight 10.0 Water Loss 8.3 cc. Maximum Temp. 111 °F
Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 2457 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1020 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I.D. Drill Collars _____ in. Length D.S.T. Tool 110 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 8-22-72 Test Ticket No. 16509
 Recorder No. 2607 Capacity 4150 Location 3579 Ft.
 Clock No. 9725 Elevation 2076 Kelly Bushings Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1966</u>	P.S.I.	<u>1:03 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>67</u>	P.S.I.	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>573</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>74</u>	P.S.I.	<u>45</u> Mins.	<u>43</u> Mins.
F Second Final Flow Pressure	<u>74</u>	P.S.I.		
G Final Closed-in Pressure	<u>447</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1942</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>14</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>0</u> Min.		final inc. of <u>2</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>1</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>74</u>
P 2	<u>5</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>76</u>
P 3	<u>10</u>	<u>6</u>	<u>101</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>82</u>
P 4	<u>15</u>	<u>9</u>	<u>172</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>99</u>
P 5	<u>20</u>	<u>12</u>	<u>258</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>123</u>
P 6		<u>15</u>	<u>341</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>154</u>
P 7		<u>18</u>	<u>404</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>195</u>
P 8		<u>21</u>	<u>467</u>			<u>21</u>	<u>222</u>
P 9		<u>24</u>	<u>514</u>			<u>24</u>	<u>265</u>
P10		<u>27</u>	<u>552</u>			<u>27</u>	<u>298</u>
P11		<u>29</u>	<u>573</u>			<u>30</u>	<u>328</u>
P12						<u>33</u>	<u>360</u>
P13						<u>36</u>	<u>389</u>
P14						<u>39</u>	<u>415</u>
P15						<u>42</u>	<u>439</u>
P16						<u>43</u>	<u>447</u>
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.
Pressure Data

Date 8-22-72 Recorder No. 2607 Capacity 4150 Test Ticket No. 16509
 Clock No. 9725 Elevation 2076 Kelly Bushings Location 3579 Ft.
 Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1966</u>	P.S.I.	<u>1:03 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>67</u>	P.S.I.	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>573</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>74</u>	P.S.I.	<u>45</u> Mins.	<u>43</u> Mins.
F Second Final Flow Pressure	<u>74</u>	P.S.I.		
G Final Closed-in Pressure	<u>447</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1942</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>14</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>0</u> Min.		final inc. of <u>2</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>1</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>74</u>
P 2	<u>5</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>76</u>
P 3	<u>10</u>	<u>6</u>	<u>101</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>82</u>
P 4	<u>15</u>	<u>9</u>	<u>172</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>99</u>
P 5	<u>20</u>	<u>12</u>	<u>258</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>123</u>
P 6		<u>15</u>	<u>341</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>154</u>
P 7		<u>18</u>	<u>404</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>195</u>
P 8		<u>21</u>	<u>467</u>			<u>21</u>	<u>222</u>
P 9		<u>24</u>	<u>514</u>			<u>24</u>	<u>265</u>
P10		<u>27</u>	<u>552</u>			<u>27</u>	<u>298</u>
P11		<u>29</u>	<u>573</u>			<u>30</u>	<u>328</u>
P12						<u>33</u>	<u>360</u>
P13						<u>36</u>	<u>389</u>
P14						<u>39</u>	<u>415</u>
P15						<u>42</u>	<u>439</u>
P16						<u>43</u>	<u>447</u>
P17							
P18							
P19							
P20							

TKT. 16509
I.



2607



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

Company **Messman-Rinehart Oil Company** Lease & Well No. **Karlín #3**
Elevation **2076 Kelly Bushings** Formation **Arbuckle** Effective Pay _____ Ft. Ticket No. **16510**
Date **8-23-72** Sec. **31** Twp. **12S** Range **17W** County **Ellis** State **Kansas**
Test Approved by **J. G. Klein** Western Representative **James W. Holloway**

Formation Test No. **5** O.K. Misrun _____ Interval Tested From **3584'** to **3623'** Total Depth **3623'**
Size Main Hole **7 7/8"** Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth **3579** Ft. Size **6 3/4"** Packer Depth **3784** 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 **39** Ft. Size **5 1/2" O.D.**

RECORDERS Depth **3615** Ft. Clock No. **9725** Depth **3617** Ft. Clock No. **6774**
Top Make **Kuster** Cap **4150** No. **2607** Inside ~~Outside~~ Bottom Make **Kuster** Cap **4200** No. **1558** ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap _____ No. _____ Inside _____ Outside _____

Time Set Packer **6:01** **A.M.**
Tool Open I.F.P. From **6:04** M. to **6:24** M. Hr. **20** Min. From (B) **26** P.S.I. To (C) **26** P.S.I.
Tool Closed I.C.I.P. From **6:24** M. to **6:54** M. Hr. **30** Min. (D) **42** P.S.I.
Tool Open F.F.P. From **6:54** M. to **7:24** M. Hr. **30** Min. From (E) **29** P.S.I. To (F) **29** P.S.I.
Tool Closed F.C.I.P. From **7:24** M. to **8:09** M. Hr. **45** Min. (G) **38** P.S.I.
Initial Hydrostatic Pressure (A) **1979** P.S.I. Final Hydrostatic Pressure (H) **1954** 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 for 20 min.** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. **20 feet mud**

Reversed Out _____ Yes No _____ Mud Type **Starch** Viscosity **52** Weight **10.0** Water Loss **8.3** cc. Maximum Temp. **111** °F
Type Circ. Sub. **Plug** Safety Joint **No** Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **Yes** Did Packer Hold? **Yes** Did Tool Plug? **No** Where? _____
Length Drill Pipe **2544** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **1020** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.
I.D. Drill Collars _____ in. Length D.S.T. Tool **59** ft.

Remarks _____

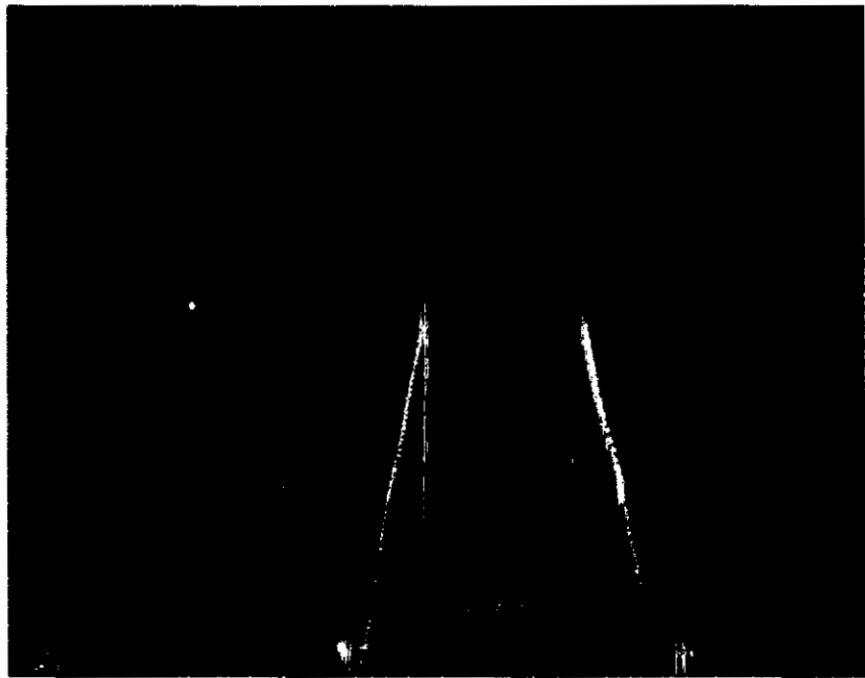
WESTERN TESTING CO., INC.
Pressure Data

Date 8-23-72 Test Ticker No. 16510
 Recorder No. 2607 Capacity 4150 Location 3615 Ft.
 Clock No. 9725 Elevation 2076 Kelly Bushings Well Temperature 111 °F

Point	Pressure			Time	
				Given	Computed
A Initial Hydrostatic Mud	1979	P.S.I.	Open Tool	6:04	A. M.
B First Initial Flow Pressure	26	P.S.I.	First Flow Pressure	20	Mins. 20 Mins.
C First Final Flow Pressure	26	P.S.I.	Initial Closed-in Pressure	30	Mins. 30 Mins.
D Initial Closed-in Pressure	42	P.S.I.	Second Flow Pressure	30	Mins. 30 Mins.
E Second Initial Flow Pressure	29	P.S.I.	Final Closed-in Pressure	45	Mins. 45 Mins.
F Second Final Flow Pressure	29	P.S.I.			
G Final Closed-in Pressure	38	P.S.I.			
H Final Hydrostatic Mud	1954	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of 4		of 10		of 6		of 15	
	5 mins. and a		3 mins. and a		5 mins. and a		3 mins. and a	
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0 26	0	26	0	29	0	29	
P 2	5 26	3	26	5	29	3	29	
P 3	10 26	6	27	10	29	6	29	
P 4	15 26	9	29	15	29	9	29	
P 5	20 26	12	31	20	29	12	29	
P 6		15	33	25	29	15	30	
P 7		18	36	30	29	18	30	
P 8		21	39			21	31	
P 9		24	40			24	31	
P10		27	40			27	32	
P11		30	42			30	33	
P12						33	34	
P13						36	35	
P14						39	36	
P15						42	37	
P16						45	38	
P17								
P18								
P19								
P20								



15-051-20843

31-125-17w

GLOBE OILWELL CEMENTING, Inc.

TEMPERATURE SURVEY

Date 8-25-72 Place Hays, Kansas

Company Name Messman-Rinehart Oil Co. Order No. _____

Mail Address 1432 Wichita Plaza City Wichita State Kansas

Owner of Well same Contractor Red Tiger Drlg.

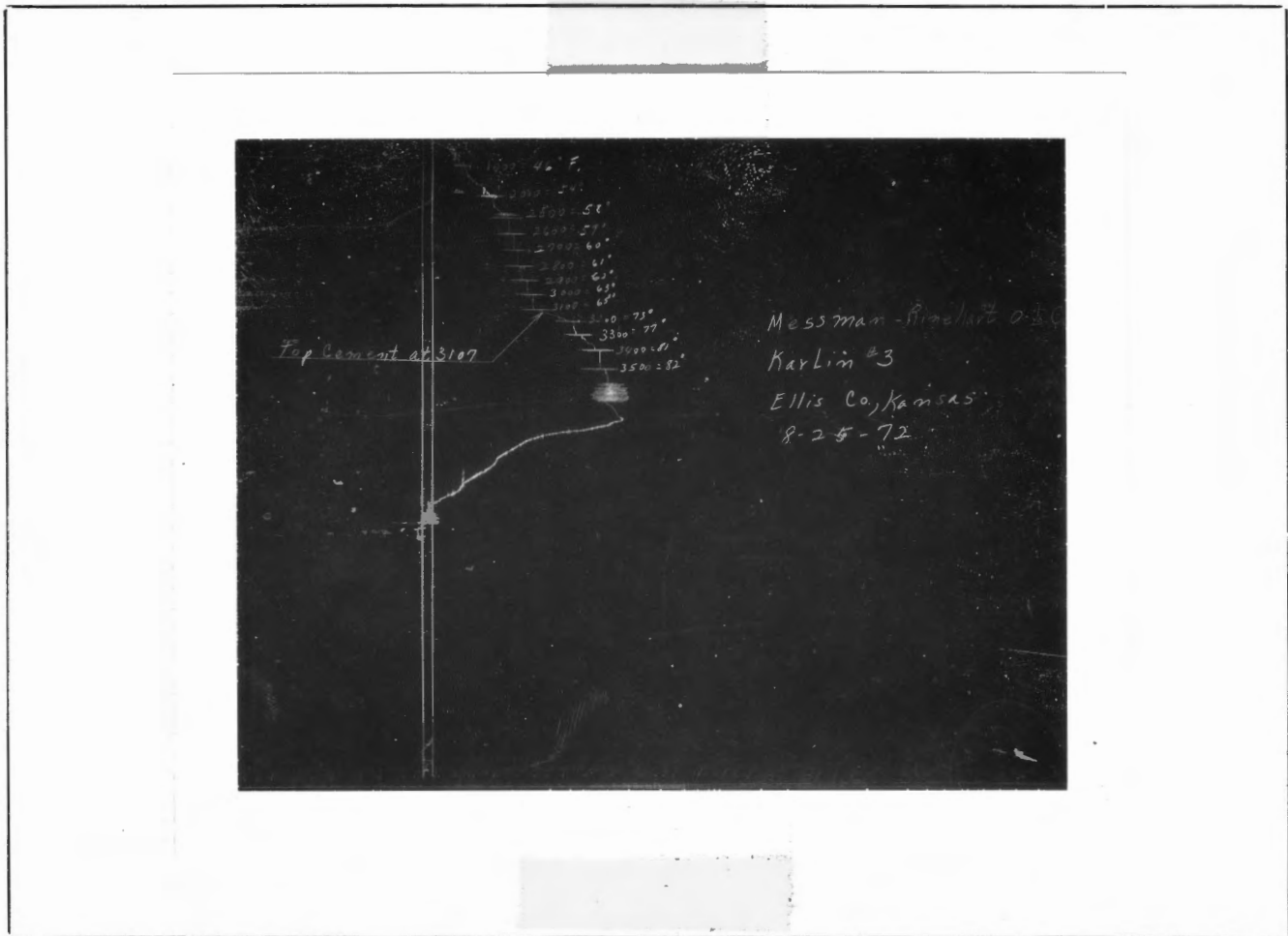
Well No. 3 Farm Karlin County Ellis Sec. _____ Tp. _____ Rge. _____

Depth of Well 3627' Depth of Csg. Cmt'd. _____ Casing { New } Size 4 1/2 Size of Hole 7-7/8
{ x Used } Weight 9.5 Amount of Cement 125

Kind of Cement Common

Top Cement 3107' Run No. 1 { Rotary }
{ Cable }

Survey From Kelly Bushing Ft. To 3588' Ft. {



This is an actual photograph of recorder chart.