

15-047-20116



2-24s-16w

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

Company Messman-Rinehart Oil Co. Lease & Well No. Klein #2 Klein "C" #1  
Elevation 2060 Kelly Bushings Formation Conglomerate Effective Pay \_\_\_\_\_ Ft. Ticket No. 16230  
Date 12-21-71 Sec. 2 Twp. 24S Range 16W County Edwards State Kansas  
Test Approved by J. G. Klein Western Representative Guy Max Knipe

Formation Test No. 1 O.K.  Misrun \_\_\_\_\_ Interval Tested From 3994' to 4040' Total Depth 4040'  
Size Main Hole 7 7/8" Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged Yes  No Conv. \_\_\_\_\_ B.T.  Damaged Yes  No  
Packer Depth 3989 Ft. Size 6 3/4" Packer Depth 3994 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 46 Ft. Size 30' D.P. 16' Perf.

RECORDERS Depth 4001 Ft. Clock No. 9102 Depth 4004 Ft. Clock No. 6899  
Top Make Kuster Cap. 4000 No. 3660 Inside Outside Bottom Make Kuster Cap. 4000 No. 3659 Inside Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 12:46 A.M.  
Tool Open I.F.P. From 12:50 M. to 1:00A M. Hr. 10 Min. From (B) 16 P.S.I. To (C) 16 P.S.I.  
Tool Closed I.C.I.P. From 1:00 M. to 1:30A M. Hr. 30 Min. (D) 36 P.S.I.  
Tool Open F.F.P. From 1:30 M. to 2:00A M. Hr. 30 Min. From (E) 19 P.S.I. To (F) 19 P.S.I.  
Tool Closed F.C.I.P. From 2:00 M. to 2:30A M. Hr. 30 Min. (G) 26 P.S.I.  
Initial Hydrostatic Pressure (A) 2133 P.S.I. Final Hydrostatic Pressure (H) 2120 P.S.I.

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

BLOW Weak for 10 min. (See remarks) Bottom Choke Size 3/4 In.  
Did Well Flow Yes  No \_\_\_\_\_ Recovery Total Ft. 10 feet mud (No -show)

Reversed Out Yes  No \_\_\_\_\_ Mud Type Starch Viscosity 44 Weight 9.6 Water Loss 11.6 cc. Maximum Temp. 110 °F  
Type Circ. Sub. Pin Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers 2 Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2772 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1201 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 67 ft.

Remarks Open tool for 2nd flow-No blow

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 12-21-71 Test Ticket No. 16230  
 Recorder No. 3660 Capacity 4000 Location 4001 Ft.  
 Clock No. 9102 Elevation 2060 Kelly Bushings Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2133</u> P.S.I.	Open Tool	<u>12:46</u> A.M.	
B First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>16</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>36</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>19</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>19</u> P.S.I.			
G Final Closed-in Pressure	<u>26</u> P.S.I.			
H Final Hydrostatic Mud	<u>2120</u> P.S.I.			

**PRESSURE BREAKDOWN**

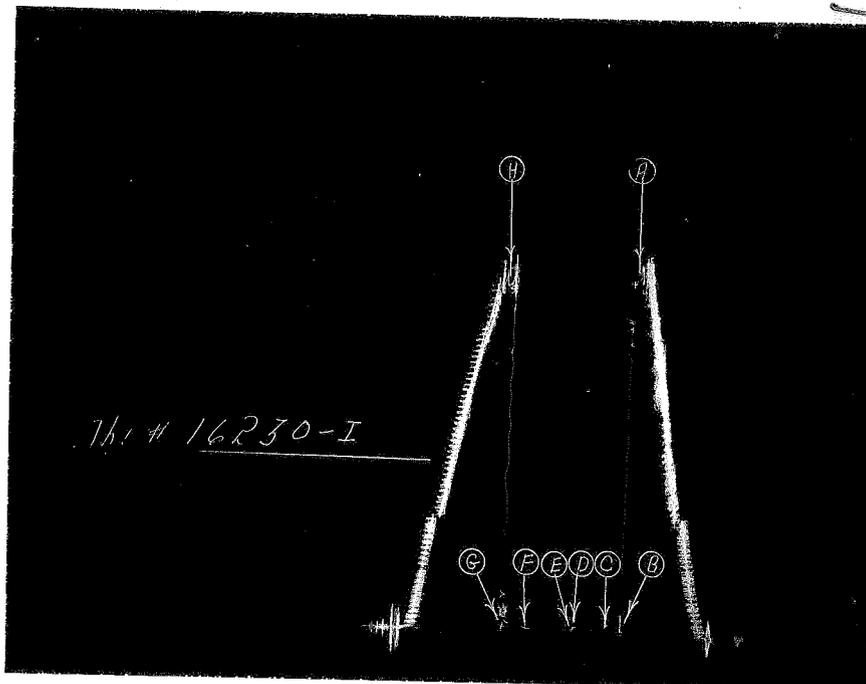
**First Flow Pressure**  
 Breakdown: 2 Inc.  
 of 5 mins. and a  
 final inc. of \_\_\_\_\_ Min.

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

**Second Flow Pressure**  
 Breakdown: 6 Inc.  
 of 5 mins. and a  
 final inc. of \_\_\_\_\_ Min.

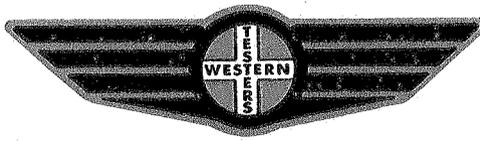
**Final Shut-In**  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of \_\_\_\_\_ Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>16</u>	<u>0</u>	<u>16</u>	<u>0</u>	<u>19</u>	<u>0</u>	<u>19</u>
P 2 <u>5</u>	<u>16</u>	<u>3</u>	<u>16</u>	<u>5</u>	<u>19</u>	<u>3</u>	<u>24</u>
P 3 <u>10</u>	<u>16</u>	<u>6</u>	<u>16</u>	<u>10</u>	<u>19</u>	<u>6</u>	<u>26</u>
P 4 _____		<u>9</u>	<u>18</u>	<u>15</u>	<u>19</u>	<u>9</u>	<u>26</u>
P 5 _____		<u>12</u>	<u>20</u>	<u>20</u>	<u>19</u>	<u>12</u>	<u>26</u>
P 6 _____		<u>15</u>	<u>22</u>	<u>25</u>	<u>19</u>	<u>15</u>	<u>26</u>
P 7 _____		<u>18</u>	<u>24</u>	<u>30</u>	<u>19</u>	<u>18</u>	<u>26</u>
P 8 _____		<u>21</u>	<u>25</u>			<u>21</u>	<u>26</u>
P 9 _____		<u>24</u>	<u>27</u>			<u>24</u>	<u>26</u>
P10 _____		<u>27</u>	<u>34</u>			<u>27</u>	<u>26</u>
P11 _____		<u>30</u>	<u>36</u>			<u>30</u>	<u>26</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	2110	2133	PSI
(B) First Initial Flow Pressure .....	10	16	PSI
(C) First Final Flow Pressure .....	10	16	PSI
(D) Initial Closed-in Pressure .....	40	36	PSI
(E) Second Initial Flow Pressure .....	30	19	PSI
(F) Second Final Flow Pressure .....	36	19	PSI
(G) Final Closed-in Pressure .....	40	26	PSI
(H) Final Hydrostatic Mud .....	2080	2120	PSI



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Company Messman-Rinehart Oil Company Lease & Well No. Klein #2 Klein "c" #1  
Elevation 2060 Kelly Bushings Formation Arbuckle Effective Pay \_\_\_\_\_ Ft. Ticket No. 16231  
Date 12-21-71 Sec. 2 Twp. 24S Range 16W County Edwards State Kansas  
Test Approved by J. G. Klein Western Representative Guy Max Knipe

Formation Test No. 2 O.K.  Misrun \_\_\_\_\_ Interval Tested From 4026' to 4050' Total Depth 4050'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T.  Damaged  Yes \_\_\_\_\_ No Conv. \_\_\_\_\_ B.T.  Damaged \_\_\_\_\_ Yes  No  
Packer Depth 4021 Ft. Size 6 3/4" Packer Depth 4026 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 24 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4042 Ft. Clock No. 9102 Depth 4045 Ft. Clock No. 6899  
Top Make Kuster Cap. 4000 No. 3660 Inside Outside Bottom Make Kuster Cap. 4000 No. 3659 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 12:30 P<sub>M</sub>  
Tool Open I.F.P. From 12:33 M. to 12:35P M. Hr. 2 Min. From (B) 644 P.S.I. To (C) 746 P.S.I.  
Tool Closed I.C.I.P. From 12:35 M. to 1:05P M. Hr. 30 Min. (D) 1325 P.S.I.  
Tool Open F.F.P. From 1:05 M. to 1:40P M. Hr. 35 Min. From (E) 865 P.S.I. To (F) 952 P.S.I.  
Tool Closed F.C.I.P. From 1:40 M. to 2:25P M. Hr. 45 Min. (G) 1326 P.S.I.  
Initial Hydrostatic Pressure (A) 2100 P.S.I. Final Hydrostatic Pressure (H) 2088 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION Spring Gauge 36 lb. 5 M. 4,830,000 C.F.  
Spraying mud in 15 min. \_\_\_\_\_ M. \_\_\_\_\_ M.

BLOW Strong gas - surfaced 2 min. Bottom Choke Size 3/4 In.  
Did Well Flow  Yes \_\_\_\_\_ No \_\_\_\_\_ Recovery Total Ft. 3 feet gas cut mud

Reversed Out \_\_\_\_\_ Yes  No \_\_\_\_\_ Mud Type Starch Viscosity 49 Weight 9.8 Water Loss 10.8 cc. Maximum Temp. 117 °F  
Type Circ. Sub. Pin Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers 2 Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2806 ft. I.D. Drill Pipe \_\_\_\_\_ in. Length Weight Pipe 1201 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 43 ft.

Remarks \_\_\_\_\_

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 12-21-71

Test Ticket No. 16231

Recorder No. 3660 Capacity 4000

Location 4042 Ft.

Clock No. 9102 Elevation 2060 Kelly Bushings

Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2100 P.S.I.	Open Tool	12:30 P. M.	
B First Initial Flow Pressure	644 P.S.I.	First Flow Pressure	2 Mins.	2 Mins.
C First Final Flow Pressure	746 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1325 P.S.I.	Second Flow Pressure	35 Mins.	36 Mins.
E Second Initial Flow Pressure	865 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	952 P.S.I.			
G Final Closed-in Pressure	1326 P.S.I.			
H Final Hydrostatic Mud	2088 P.S.I.			

**PRESSURE BREAKDOWN**

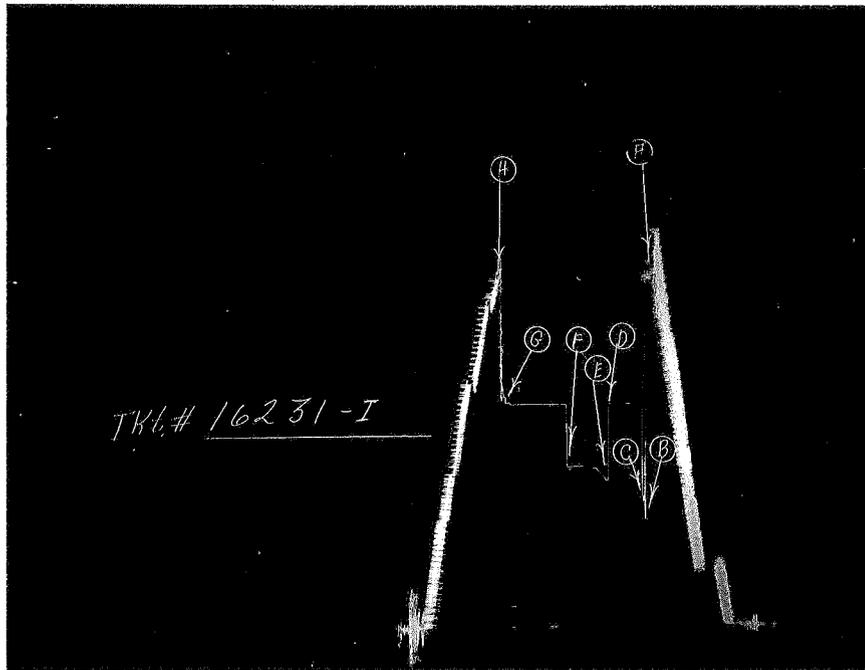
**First Flow Pressure**  
Breakdown: 1 Inc.  
of 2 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**Second Flow Pressure**  
Breakdown: 7 Inc.  
of 5 mins. and a  
final inc. of 1 Min.

**Final Shut-In**  
Breakdown: 15 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>644</u>	<u>0</u>	<u>746</u>	<u>0</u>	<u>865</u>	<u>0</u>	<u>952</u>
P 2 <u>2</u>	<u>746</u>	<u>3</u>	<u>1317</u>	<u>5</u>	<u>898</u>	<u>3</u>	<u>1326</u>
P 3		<u>6</u>	<u>1325</u>	<u>10</u>	<u>932</u>	<u>6</u>	<u>1326</u>
P 4		<u>9</u>	<u>1325</u>	<u>15</u>	<u>940</u>	<u>9</u>	<u>1326</u>
P 5		<u>12</u>	<u>1325</u>	<u>20</u>	<u>948</u>	<u>12</u>	<u>1326</u>
P 6		<u>15</u>	<u>1325</u>	<u>25</u>	<u>952</u>	<u>15</u>	<u>1326</u>
P 7		<u>18</u>	<u>1325</u>	<u>30</u>	<u>952</u>	<u>18</u>	<u>1326</u>
P 8		<u>21</u>	<u>1325</u>	<u>35</u>	<u>952</u>	<u>21</u>	<u>1326</u>
P 9		<u>24</u>	<u>1325</u>	<u>36</u>	<u>952</u>	<u>24</u>	<u>1326</u>
P10		<u>27</u>	<u>1325</u>			<u>27</u>	<u>1326</u>
P11		<u>30</u>	<u>1325</u>			<u>30</u>	<u>1326</u>
P12						<u>33</u>	<u>1326</u>
P13						<u>36</u>	<u>1326</u>
P14						<u>39</u>	<u>1326</u>
P15						<u>42</u>	<u>1326</u>
P16						<u>45</u>	<u>1326</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	2129	2100	PSI
(B) First Initial Flow Pressure .....	634	644	PSI
(C) First Final Flow Pressure .....	734	746	PSI
(D) Initial Closed-in Pressure .....	1323	1325	PSI
(E) Second Initial Flow Pressure .....	863	865	PSI
(F) Second Final Flow Pressure .....	942	952	PSI
(G) Final Closed-in Pressure .....	1323	1326	PSI
(H) Final Hydrostatic Mud .....	2129	2088	PSI