



TIGHT HOLE

Home Office: Great Bend, Kansas

P. O. Box 793

(316) 793-7903

Company J. A. Allison Lease & Well No. Kreutzer A-1

Elevation 2071 Kelly Bushings Topeka Effective Pay 5 Ft. Ticket No. 16030

Date 9-11-71 Sec. 26 Twp. 16 Range 18 County Rush State Kansas

Test Approved by Geo. Waite Western Representative Leon Elmore

Formation Test No. 1 O.K. ☒ Misrun Interval Tested From 3030' to 3056' Total Depth 3056'

Size Main Hole 7 7/8" Rat Hole Conv. ☒ B.T. Damaged Yes ☒ No Conv. B.T. ☒ Damaged Yes ☒ No

Packer Depth 3025 Ft. Size 6 3/4" Packer Depth 3030 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 26 Ft. Size 5 1/2" O.D.

RECORDERS	Depth	Ft.	Clock No.	Depth	Ft.	Clock No.
Top Make <u>Kuster</u> Cap. <u>4500</u> No. <u>30815</u>	<u>3049</u>		<u>6866</u>	Bottom Make <u>Kuster</u> Cap. <u>4400</u> No. <u>2603</u>	<u>3052</u>	<u>5665</u>
Below Straddle: Depth				Depth		
Top Make				Bottom Make		
Cap.				Cap.		
No.				No.		
Inside				Inside		
Outside				Outside		
Inside				Inside		
Outside				Outside		

Time Set Packer 7:44 A. M

Tool Open I.F.P. From 7:47 M. to 8:02A. M. Hr. 15 Min. From (B) 72 P.S.I. To (C) 64 P.S.I.

Tool Closed I.C.I.P. From 8:02 M. to 8:32 A. M. Hr. 30 Min. (D) 1009 P.S.I.

Tool Open F.F.P. From 8:32 M. to 9:17A. M. Hr. 45 Min. From (E) 36 P.S.I. To (F) 36 P.S.I.

Tool Closed F.C.I.P. From 9:17 M. to 9:47A. M. Hr. 30 Min. (G) 992 P.S.I.

Initial Hydrostatic Pressure (A) 1698 P.S.I. Final Hydrostatic Pressure (H) 1690 P.S.I.

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

INFORMATION

(See attached sheet)

BLOW Strong Bottom Choke Size 3/4 In.

Did Well Flow Yes ☒ No Recovery Total Ft. 45 feet gas cut mud

Reversed Out Yes ☒ No Mud Type Starch Viscosity 45 Weight 10.1 Water Loss 21 cc. Maximum Temp. 100 °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 977 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 46 ft.

Remarks



P. O. BOX 793
GREAT BEND, KANSAS

COMPANY J. A. Allison LEASE & WELL NO. Kreutzer 1-A

TEST NO. 1 INTERVAL TESTED FROM 3030' TO 3056'

TIME		Ins. of Water		DESCRIPTION OF FLOW
PRE-FLOW		MAX PRESS P.S.I.		
10	9			209,000
15	9			209,000
SECOND FLOW				
10	14			260,000
20	13			251,000
30	14			260,000
40	14		260,000	260,000
45	14			260,000

SIZE CHOKE 3/4 SURFACE 3/4 IN. 3/4 BOTTOM 3/4 IN.

REMARKS Gas to surface in 3 min.

WESTERN TESTING CO., INC.

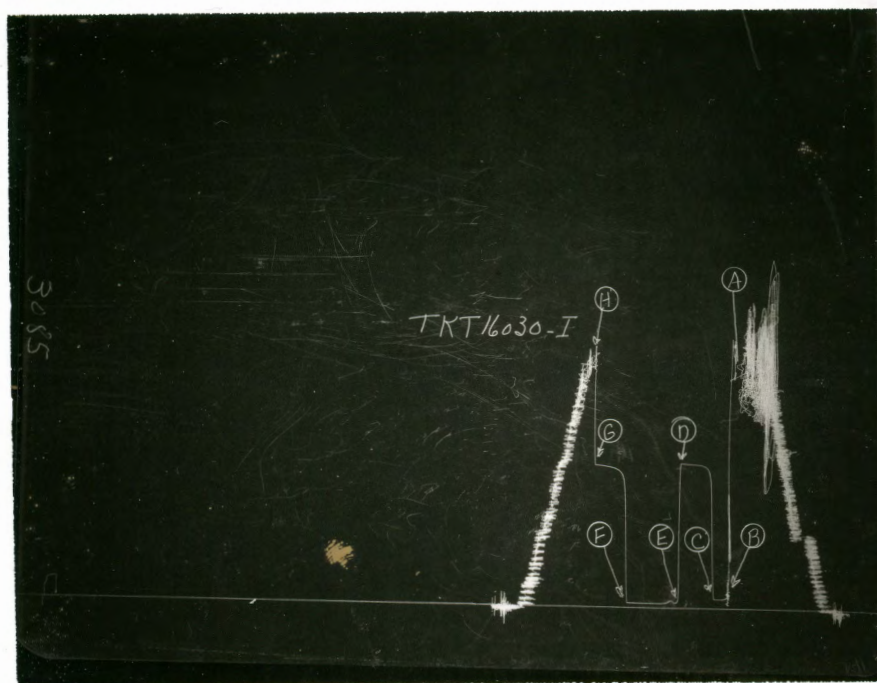
Pressure Data

Date 9-11-71 Recorder No. 3085 Capacity 4500 Test Ticket No. 16030
 Clock No. 6866 Elevation 2071 Kelly Bushings Location 3049 Ft. 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1698</u>	P.S.I.	<u>7:44 A.</u>	
B First Initial Flow Pressure	<u>72</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>64</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1009</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>36</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>36</u>	P.S.I.		
G Final Closed-in Pressure	<u>992</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1690</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>10</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>72</u>	<u>0</u>	<u>64</u>	<u>0</u>	<u>36</u>	<u>0</u>	<u>36</u>
P 2 <u>5</u>	<u>64</u>	<u>3</u>	<u>874</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>885</u>
P 3 <u>10</u>	<u>64</u>	<u>6</u>	<u>979</u>	<u>10</u>	<u>36</u>	<u>6</u>	<u>946</u>
P 4 <u>15</u>	<u>64</u>	<u>9</u>	<u>994</u>	<u>15</u>	<u>36</u>	<u>9</u>	<u>962</u>
P 5 _____		<u>12</u>	<u>998</u>	<u>20</u>	<u>36</u>	<u>12</u>	<u>974</u>
P 6 _____		<u>15</u>	<u>1002</u>	<u>25</u>	<u>36</u>	<u>15</u>	<u>979</u>
P 7 _____		<u>18</u>	<u>1004</u>	<u>30</u>	<u>36</u>	<u>18</u>	<u>986</u>
P 8 _____		<u>21</u>	<u>1006</u>	<u>35</u>	<u>36</u>	<u>21</u>	<u>988</u>
P 9 _____		<u>24</u>	<u>1007</u>	<u>40</u>	<u>36</u>	<u>24</u>	<u>990</u>
P10 _____		<u>27</u>	<u>1008</u>	<u>45</u>	<u>36</u>	<u>27</u>	<u>991</u>
P11 _____		<u>30</u>	<u>1009</u>			<u>30</u>	<u>992</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1845	1698	PSI
(B) First Initial Flow Pressure	71	72	PSI
(C) First Final Flow Pressure	65	64	PSI
(D) Initial Closed-in Pressure	1013	1009	PSI
(E) Second Initial Flow Pressure	35	36	PSI
(F) Second Final Flow Pressure	35	36	PSI
(G) Final Closed-in Pressure	990	992	PSI
(H) Final Hydrostatic Mud	1799	1690	PSI



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

Company **J. A. Allison** Lease & Well No. **Kreutzer A-1**
Elevation **2071 Kelly Bushings** Formation **Toronto** Effective Pay _____ Ft. Ticket No. **16031**
Date **9-13-71** Sec. **26** Twp. **16** Range **18** County **Rush** State **Kansas**
Test Approved by **Geo Waite** Western Representative **Leon Elmore**
Formation Test No. **2** O.K. ☒ Misrun _____ Interval Tested From **3276'** to **3310'** Total Depth **3310'**
Size Main Hole **7 7/8"** Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth **3271** Ft. Size **6 3/4"** Packer Depth **3276** 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 **34** Ft. Size **5 1/2" O.D.**
RECORDERS Depth **3301** Ft. Clock No. **6892** Depth **3304** Ft. Clock No. **5665**
Top Make **Kuster** Cap. **4500** No. **3085** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4400** No. **2603** Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer **12:20** **A.** M
Tool Open I.F.P. From **12:23** M. to **12:38A.** M. Hr. **15** Min. From (B) **16** P.S.I. To (C) **16** P.S.I.
Tool Closed I.C.I.P. From **12:38** M. to **1:08A.** M. Hr. **30** Min. (D) **52** P.S.I.
Tool Open F.F.P. From **1:08** M. to **1:23A.** M. Hr. **15** Min. From (E) **18** P.S.I. To (F) **18** P.S.I.
Tool Closed F.C.I.P. From **1:23** M. to **1:53A.** M. Hr. **30** Min. (G) **24** P.S.I.
Initial Hydrostatic Pressure (A) **1872** P.S.I. Final Hydrostatic Pressure (H) **1861** 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 4 min.** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. **15 feet mud**
Reversed Out _____ Yes ☒ No _____ Mud Type **Starch** Viscosity **43** Weight **10.5** Water Loss **18.2** cc. Maximum Temp. **105** °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 **2279** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **977** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **54** ft.
Remarks _____

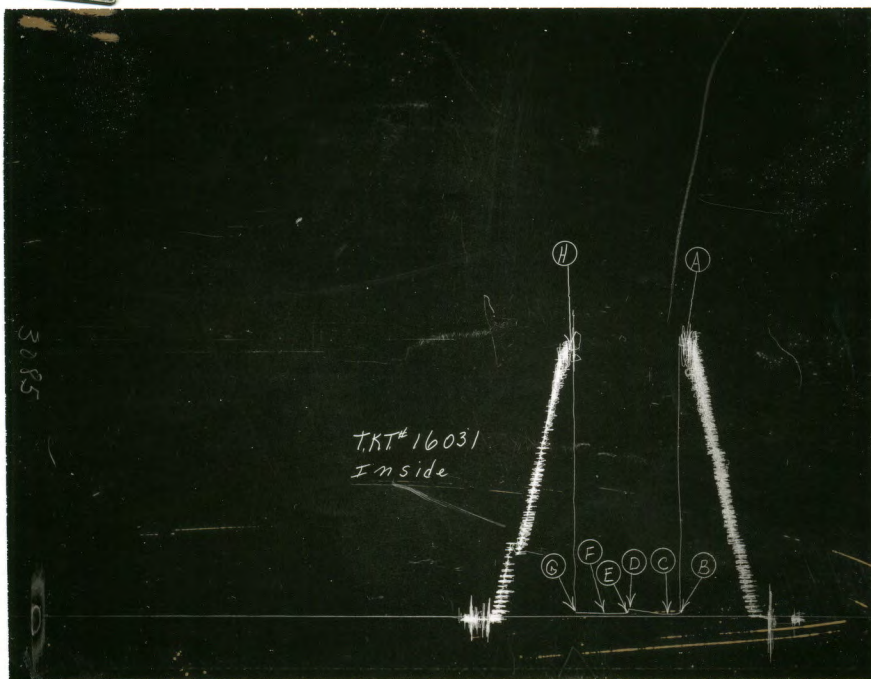
WESTERN TESTING CO., INC.
Pressure Data

Date 9-13-71 Recorder No. 3085 Capacity 4500 Test Ticket No. 16031
Clock No. 6892 Elevation 2071 Kelly Bushings Location 3301 Ft. 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1872</u>	P.S.I.	<u>12:23</u>	<u>A.</u>
B First Initial Flow Pressure	<u>16</u>	P.S.I.	<u>15</u>	<u>15</u>
C First Final Flow Pressure	<u>16</u>	P.S.I.	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>52</u>	P.S.I.	<u>15</u>	<u>15</u>
E Second Initial Flow Pressure	<u>18</u>	P.S.I.	<u>30</u>	<u>30</u>
F Second Final Flow Pressure	<u>18</u>	P.S.I.		
G Final Closed-in Pressure	<u>24</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1861</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>10</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>16</u>	<u>0</u>	<u>16</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>18</u>
P 2 <u>5</u>	<u>16</u>	<u>3</u>	<u>17</u>	<u>5</u>	<u>18</u>	<u>3</u>	<u>18</u>
P 3 <u>10</u>	<u>16</u>	<u>6</u>	<u>19</u>	<u>10</u>	<u>18</u>	<u>6</u>	<u>18</u>
P 4 <u>15</u>	<u>16</u>	<u>9</u>	<u>23</u>	<u>13</u>	<u>18</u>	<u>9</u>	<u>19</u>
P 5 _____		<u>12</u>	<u>28</u>			<u>12</u>	<u>19</u>
P 6 _____		<u>15</u>	<u>31</u>			<u>15</u>	<u>20</u>
P 7 _____		<u>18</u>	<u>34</u>			<u>18</u>	<u>20</u>
P 8 _____		<u>21</u>	<u>40</u>			<u>21</u>	<u>21</u>
P 9 _____		<u>24</u>	<u>43</u>			<u>24</u>	<u>21</u>
P10 _____		<u>27</u>	<u>47</u>			<u>27</u>	<u>23</u>
P11 _____		<u>30</u>	<u>52</u>			<u>30</u>	<u>24</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1879	1872
(B) First Initial Flow Pressure	23	16
(C) First Final Flow Pressure	23	16
(D) Initial Closed-in Pressure	53	52
(E) Second Initial Flow Pressure	23	18
(F) Second Final Flow Pressure	23	18
(G) Final Closed-in Pressure	2356	2411
(H) Final Hydrostatic Mud	1856	1861



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

Company **J. A. Allison** Lease & Well No. **Kreutzer A-1**
Elevation **2071 Kelly Bushings** Formation **Kansas City** Effective Pay _____ Ft. Ticket No. **16032**
Date **9-13-71** Sec. **26** Twp. **16** Range **18** County **Rush** State **Kansas**
Test Approved by **Geo Waite** Western Representative **Leon Elmore**
Formation Test No. **3** O.K. ☒ Misrun _____ Interval Tested From **3307'** to **3340'** Total Depth **3340'**
Size Main Hole **7 7/8"** Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth **3302** Ft. Size **6 3/4"** Packer Depth **3307** 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 **33** Ft. Size **5 1/2" O.D.**
RECORDERS Depth **3331** Ft. Clock No. **6892** Depth **3334** Ft. Clock No. **5665**
Top Make **Kuster** Cap. **4500** No. **3085** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **4400** No. **2603** Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer **12:18** P.M.
Tool Open I.F.P. From **12:21** M. to **12:36P.** Hr. **15** Min. From (B) **21** P.S.I. To (C) **21** P.S.I.
Tool Closed I.C.I.P. From **12:36** M. to **1:06P.** Hr. **30** Min. (D) **51** P.S.I.
Tool Open F.F.P. From **1:06** M. to **1:51P.** Hr. **45** Min. From (E) **21** P.S.I. To (F) **21** P.S.I.
Tool Closed F.C.I.P. From **1:51** M. to **2:21P.** Hr. **30** Min. (G) **39** P.S.I.
Initial Hydrostatic Pressure (A) **1865** P.S.I. Final Hydrostatic Pressure (H) **1857** P.S.I.
SURFACE Size Choke **3/4** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW **Weak** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. **40 feet mud - 30 feet gas in pipe**
Reversed Out _____ Yes ☒ No _____ Mud Type **Starch** Viscosity **42** Weight **10.5** Water Loss **18.2** 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 **2310** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **977** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **53** ft.
Remarks _____

WESTERN TESTING CO., INC.

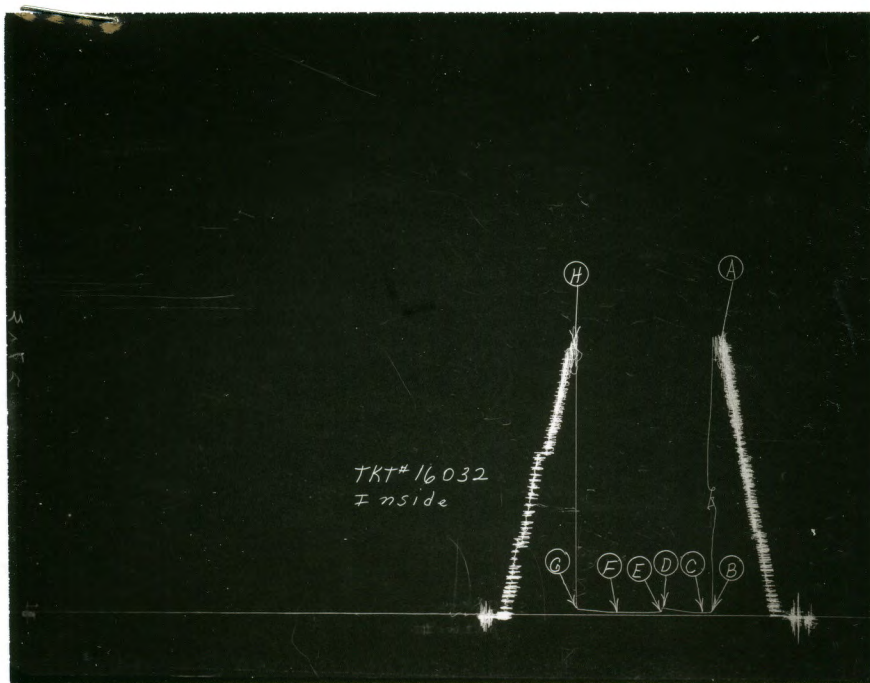
Pressure Data

Date **9-13-71** Recorder No. **3085** Capacity **4500** Test Ticket No. **16032**
 Clock No. **6892** Elevation **2071 Kelly Bushings** Location **3331** Ft.
 Well Temperature **103** °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1865	P.S.I.	12:21 P.	
B First Initial Flow Pressure	21	P.S.I.	15 Mins.	15 Mins.
C First Final Flow Pressure	21	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	51	P.S.I.	45 Mins.	45 Mins.
E Second Initial Flow Pressure	21	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	21	P.S.I.		
G Final Closed-in Pressure	39	P.S.I.		
H Final Hydrostatic Mud	1857	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 3 Inc.		Breakdown: 10 Inc.		Breakdown: 9 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 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 0	21	0	21	0	21	0	21
P 2 5	21	3	21	5	21	3	21
P 3 10	21	6	23	10	21	6	21
P 4 15	21	9	25	15	21	9	22
P 5 _____		12	27	20	21	12	23
P 6 _____		15	31	25	21	15	27
P 7 _____		18	35	30	21	18	30
P 8 _____		21	40	35	21	21	32
P 9 _____		24	43	40	21	24	34
P10 _____		27	47	45	21	27	36
P11 _____		30	51			30	39
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1937	1865	PSI
(B) First Initial Flow Pressure	23	21	PSI
(C) First Final Flow Pressure	23	21	PSI
(D) Initial Closed-in Pressure	53	51	PSI
(E) Second Initial Flow Pressure	23	20	PSI
(F) Second Final Flow Pressure	23	21	PSI
(G) Final Closed-in Pressure	42	39	PSI
(H) Final Hydrostatic Mud	1902	1857	PSI



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

Company **J. A. Allison** Lease & Well No. **Kreutzer A-1**
Elevation **2071 Kelly Bushings** Formation **Kansas City** Effective Pay **3** Ft. Ticket No. **16033**
Date **9-14-71** Sec. **26** Twp. **16** Range **18** County **Rush** State **Kansas**
Test Approved by **Geo. Waite** Western Representative **Leon Elmore**
Formation Test No. **4** O.K. ☒ Misrun Interval Tested From **3336'** to **3365'** Total Depth **3365'**
Size Main Hole **7 7/8"** Rat Hole Conv. ☒ B.T. Damaged Yes ☒ No Conv. B.T. ☒ Damaged Yes ☒ No
Packer Depth **3331** Ft. Size **6 3/4"** Packer Depth **3336** 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 **29** Ft. Size **5 1/2" O.D.**
RECORDERS Depth **3356** Ft. Clock No. **6892** Depth **3359** Ft. Clock No. **5665**
Top Make **Kuster** Cap. **4500** No. **3085** Inside **Outside** Bottom Make **Kuster** Cap. **4400** No. **2603** 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 **12:26** **A.M.**
Tool Open I.F.P. From **12:29** M. to **12:45A** M. Hr. **16** Min. From (B) **23** P.S.I. To (C) **23** P.S.I.
Tool Closed I.C.I.P. From **12:45** M. to **1:15A** M. Hr. **30** Min. (D) **1014** P.S.I.
Tool Open F.F.P. From **1:15** M. to **2:00A** M. Hr. **45** Min. From (E) **23** P.S.I. To (F) **31** P.S.I.
Tool Closed F.C.I.P. From **2:00** M. to **2:30A** M. Hr. **30** Min. (G) **727** P.S.I.
Initial Hydrostatic Pressure (A) **1886** P.S.I. Final Hydrostatic Pressure (H) **1859** P.S.I.
SURFACE Size Choke **3/4** In. Max. Press. P.S.I. Time Description of Flow
INFORMATION (See attached sheet)
BLOW **Strong** Bottom Choke Size **3/4** In.
Did Well Flow Yes ☒ No Recovery Total Ft. **50 feet mud**
Reversed Out Yes ☒ No Mud Type **Starch** Viscosity **44** Weight **10.2** Water Loss **18.9** 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 **2339** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **977** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars
I. D. Drill Collars in. Length D.S.T. Tool **49** ft.
Remarks **Gas to surface in 17 min. - gaged 11,700**

REMARKS Gas to surface in 17 min.

WESTERN TESTING CO., INC.

Pressure Data

Date **9-14-71**

Test Ticket No. **16033**

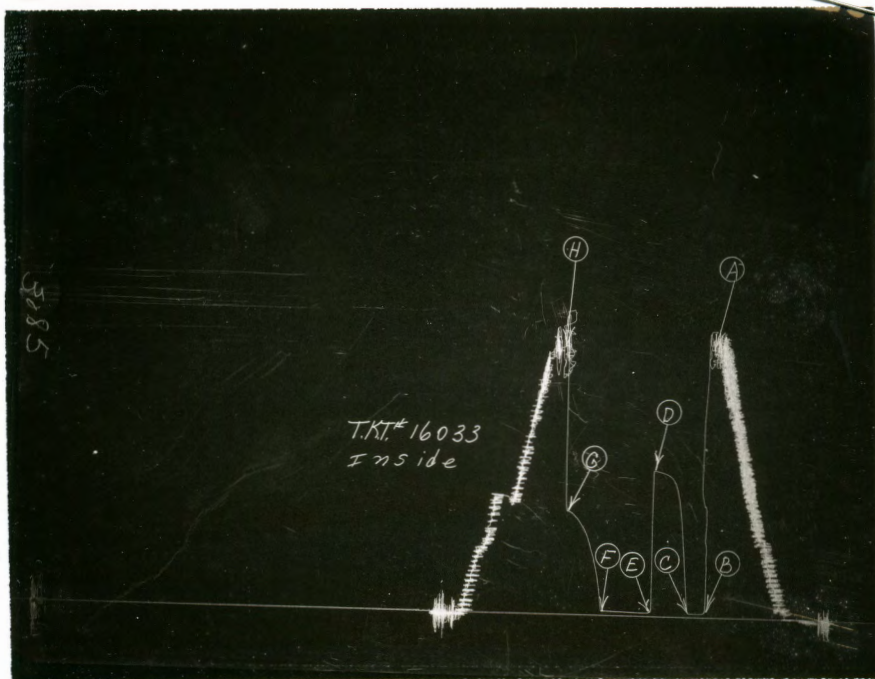
Recorder No. **3085** Capacity **4500** Location **3356** Ft.

Clock No. **6892** Elevation **2071 Kelly Bushings** Well Temperature **103** °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1886	P.S.I.	12:29 A.	
B First Initial Flow Pressure	23	P.S.I.	16 Mins.	15 Mins.
C First Final Flow Pressure	23	P.S.I.	30 Mins.	31 Mins.
D Initial Closed-in Pressure	1014	P.S.I.	45 Mins.	43 Mins.
E Second Initial Flow Pressure	23	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	31	P.S.I.		
G Final Closed-in Pressure	727	P.S.I.		
H Final Hydrostatic Mud	1859	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 3 Inc.		Breakdown: 10 Inc.		Breakdown: 8 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of _____ Min.		final inc. of 1 Min.		final inc. of 3 Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	23	0	23	0	23	0	31
P 2 5	23	3	270	5	23	3	251
P 3 10	23	6	599	10	24	6	358
P 4 15	23	9	821	15	25	9	454
P 5 _____		12	923	20	26	12	532
P 6 _____		15	963	25	27	15	597
P 7 _____		18	986	30	28	18	637
P 8 _____		21	997	35	29	21	669
P 9 _____		24	1004	40	30	24	692
P10 _____		27	1009	43	31	27	713
P11 _____		30	1013			30	727
P12 _____		31	1014				
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1926	1886	PSI
(B) First Initial Flow Pressure	30	23	PSI
(C) First Final Flow Pressure	23	23	PSI
(D) Initial Closed-in Pressure	1013	1014	PSI
(E) Second Initial Flow Pressure	30	23	PSI
(F) Second Final Flow Pressure	30	31	PSI
(G) Final Closed-in Pressure	722	727	PSI
(H) Final Hydrostatic Mud	1879	1859	PSI



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

Company J. A. Allison Lease & Well No. Kreutzer A-1
Elevation 2071 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 16087
Date 9-14-71 Sec. 26 Twp. 16S Range 18W County Rush State Kansas
Test Approved by Geo. Waite Western Representative Glu Max Knife
Formation Test No. 5 O.K. ☒ Misrun _____ Interval Tested From 3384' to 3400' Total Depth 3400'
Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 3379 Ft. Size 6 3/4" Packer Depth 3384 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 16 Ft. Size 5 1/2" O.D.
RECORDERS Depth 3392 Ft. Clock No. 6800 Depth 3395 Ft. Clock No. 9712
Top Make Kuster Cap. 4150 No. 2605 Inside Outside Bottom Make Kuster Cap. 4200 No. 1051 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Time Set Packer 9:12 P.M.
Tool Open I.F.P. From 9:15 M. to 9:30P M. Hr. 15 Min. From (B) 23 P.S.I. To (C) 23 P.S.I.
Tool Closed I.C.I.P. From 9:30 M. to 10:00P M. Hr. 30 Min. (D) 37 P.S.I.
Tool Open F.F.P. From 10:00 M. to 10:15P M. Hr. 15 Min. From (E) 27 P.S.I. To (F) 27 P.S.I.
Tool Closed F.C.I.P. From 10:15 M. to 10:45P M. Hr. 30 Min. (G) 31 P.S.I.
Initial Hydrostatic Pressure (A) 1896 P.S.I. Final Hydrostatic Pressure (H) 1887 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 7 min. Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 8 feet drilling mud
Reversed Out _____ Yes ☒ No _____ Mud Type Starch Viscosity 44 Weight 10.2 Water Loss 18.9 cc. Maximum Temp. 104 °F
Type Circ. Sub. Pin Did Tool Plug? _____ Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 2387 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 976 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 37 ft.
Remarks _____

WESTERN TESTING CO., INC.

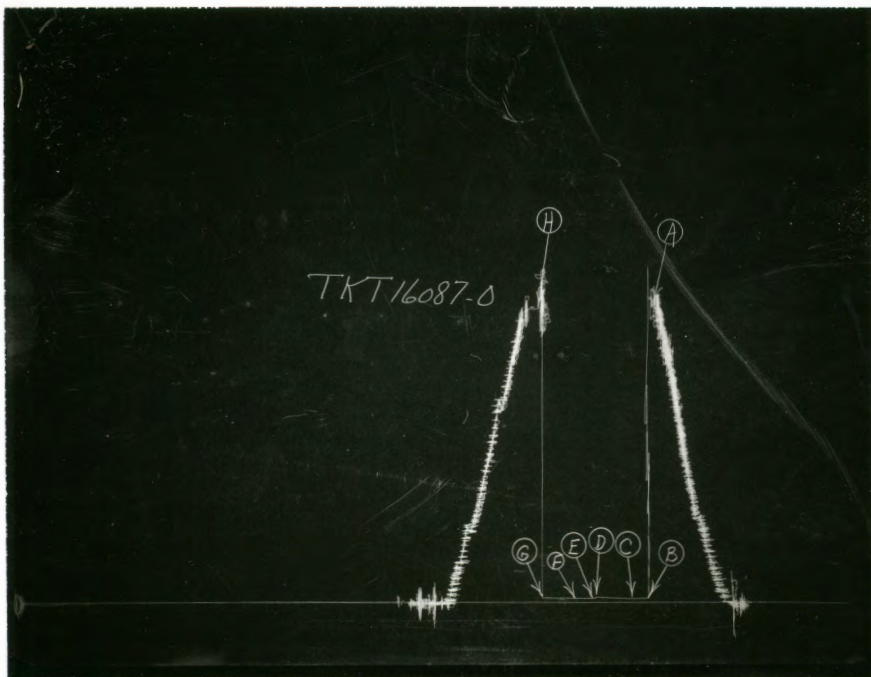
Pressure Data

Date 9-14-71 Recorder No. 2605 Capacity 4150 Test Ticket No. 16087
 Clock No. 6800 Elevation 2071 Kelly Bushings Location 3392 Ft.
 Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1896</u>	P.S.I.	<u>9:15 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>23</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>23</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>37</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>27</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>27</u>	P.S.I.		
G Final Closed-in Pressure	<u>31</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1887</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>10</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>23</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>27</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>23</u>	<u>5</u>	<u>27</u>	<u>3</u>	<u>27</u>
P 3 <u>10</u>	<u>23</u>	<u>6</u>	<u>24</u>	<u>10</u>	<u>27</u>	<u>6</u>	<u>27</u>
P 4 <u>15</u>	<u>23</u>	<u>9</u>	<u>26</u>	<u>15</u>	<u>27</u>	<u>9</u>	<u>27</u>
P 5 _____		<u>12</u>	<u>27</u>			<u>12</u>	<u>27</u>
P 6 _____		<u>15</u>	<u>28</u>			<u>15</u>	<u>28</u>
P 7 _____		<u>18</u>	<u>30</u>			<u>18</u>	<u>28</u>
P 8 _____		<u>21</u>	<u>31</u>			<u>21</u>	<u>29</u>
P 9 _____		<u>24</u>	<u>33</u>			<u>24</u>	<u>29</u>
P10 _____		<u>27</u>	<u>35</u>			<u>27</u>	<u>31</u>
P11 _____		<u>30</u>	<u>37</u>			<u>30</u>	<u>31</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1878	1896	PSI
(B) First Initial Flow Pressure	21	23	PSI
(C) First Final Flow Pressure	21	23	PSI
(D) Initial Closed-in Pressure	36	37	PSI
(E) Second Initial Flow Pressure	27	27	PSI
(F) Second Final Flow Pressure	27	27	PSI
(G) Final Closed-in Pressure	30	31	PSI
(H) Final Hydrostatic Mud	1867	1887	PSI