



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

Company K & E Drikling Co. Lease & Well No. Kachelman # 2-A
Elevation 1968 Kelly Bushing Formation Kansas City Effective Pay _____ Ft. Ticket No. 10953
Date 1-27-69 Sec. 13 Twp. 25 Range 14 County Stafford State Kansas
Test Approved by Stanton Cox Western Representative Leon Elmore

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3900' to 3957' Total Depth 3957'
Size Main Hole 7 7/8" Cat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
Packer Depth 3895 Ft. Size 6 3/4 Packer Depth 3900 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 57 Ft. Size 31' DP 26' 5 1/2" OD

RECORDERS Depth 3948 Ft. Clock No. 6866 Depth 3951 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 10:51P M
Tool Open I.F.P. From 10:52 M. to 11:07P M. Hr. 15 Min. From (B) 35 P.S.I. To (C) 35 P.S.I.
Tool Closed I.C.I.P. From 11:07 M. to 11:37P M. Hr. 30 Min. (D) 553 P.S.I.
Tool Open F.F.P. From 11:37 M. to 12:37P M. 1 Hr. - Min. From (E) 52 P.S.I. To (F) 52 P.S.I.
Tool Closed F.C.I.P. From 12:37 M. to 1:07P M. Hr. 30 Min. (G) 148 P.S.I.
Initial Hydrostatic Pressure (A) 2047 P.S.I. Final Hydrostatic Pressure (H) 2031 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 15 minutes—died Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 15 feet slight oil cut mud = 60 feet mud

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 41 Weight 9.9 Water Loss 16 cc. Maximum Temp. 113 °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 3339 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 572 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

WESTERN TESTING CO., INC.
Pressure Data

Date 1-27-69

Test Ticket No. 10953

Recorder No. 3085 Capacity 4500 Location 3948 Ft.

Clock No. 6866 Elevation 1968 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2047</u> P.S.I.	Open Tool	<u>10:51P</u>	<u>M</u>
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>553</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>52</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>52</u> P.S.I.			
G Final Closed-in Pressure	<u>148</u> P.S.I.			
H Final Hydrostatic Mud	<u>2031</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 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.

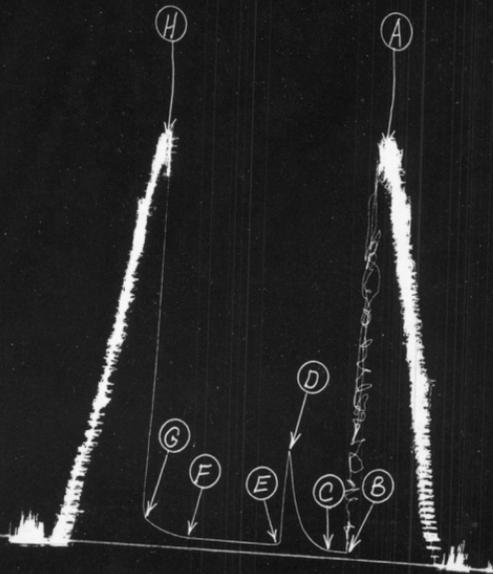
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of _____ Min.

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>35</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>52</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>45</u>	<u>5</u>	<u>52</u>	<u>3</u>	<u>57</u>
P 3 <u>10</u>	<u>35</u>	<u>6</u>	<u>54</u>	<u>20</u>	<u>52</u>	<u>6</u>	<u>62</u>
P 4 <u>15</u>	<u>35</u>	<u>9</u>	<u>69</u>	<u>15</u>	<u>52</u>	<u>9</u>	<u>67</u>
P 5 _____	_____	<u>12</u>	<u>90</u>	<u>20</u>	<u>52</u>	<u>12</u>	<u>74</u>
P 6 _____	_____	<u>15</u>	<u>121</u>	<u>25</u>	<u>52</u>	<u>15</u>	<u>81</u>
P 7 _____	_____	<u>18</u>	<u>160</u>	<u>30</u>	<u>52</u>	<u>18</u>	<u>90</u>
P 8 _____	_____	<u>21</u>	<u>227</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>100</u>
P 9 _____	_____	<u>24</u>	<u>315</u>	<u>40</u>	<u>52</u>	<u>24</u>	<u>114</u>
P10 _____	_____	<u>27</u>	<u>432</u>	<u>45</u>	<u>52</u>	<u>27</u>	<u>131</u>
P11 _____	_____	<u>30</u>	<u>553</u>	<u>50</u>	<u>52</u>	<u>30</u>	<u>148</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>52</u>	_____	_____
P13 _____	_____	_____	_____	<u>60</u>	<u>52</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

K. E. DrLg Co.
Kachelman 2-a

T.K.T. # 10953
Test # 1





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

Company K & E Drilling Co. Lease & Well No. Kashelman # 2-A
Elevation 1968 Kelly Bushing Formation Mississippian Effective Pay _____ Ft. Ticket No. 10954
Date 1-29-69 Sec. 13 Twp. 25 Range 14 County Stafford State Kansas
Test Approved by Stanton Cox Western Representative Leon Elmore

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 4051' to 4106' Total Depth 4106'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. B.T. _____ Damaged Yes No
Packer Depth 4046 Ft. Size 6 3/4 Packer Depth 4051 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 55 Ft. Size 32" WP - 23" - 5 1/2" OD

RECORDERS Depth 4097 Ft. Clock No. 6866 Depth 4100 Ft. Clock No. 8377
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 _____

Time Set Packer 7:42A M
Tool Open I.F.P. From 7:43 M. to 7:58A M. Hr. 15 Min. From (B) 69 P.S.I. To (C) 95 P.S.I.
Tool Closed I.C.I.P. From 7:58 M. to 8:28A M. Hr. 30 Min. (D) 588 P.S.I.
Tool Open F.F.P. From 8:28 M. to 9:58A M. 1 Hr. 30 Min. From (E) 97 P.S.I. To (F) 133 P.S.I.
Tool Closed F.C.I.P. From 9:58 M. to 10:28A M. Hr. 30 Min. (G) 363 P.S.I.
Initial Hydrostatic Pressure (A) 2248 P.S.I. Final Hydrostatic Pressure (H) 2225 P.S.I.

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

BLOW Strong Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 190 feet gas cut mud

Reversed Out Yes No _____ Mud Type starch Viscosity 48 Weight 9.9 Water Loss 14 cc. Maximum Temp. 115 °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 _____ ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 572 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 Gas to surface 60 minutes too small to measure

WESTERN TESTING CO., INC.
Pressure Data

Date 1-29-69

Test Ticket No. 10954

Recorder No. 3085 Capacity 4500 Location 4097 Ft.

Clock No. 6866 Elevation 1968 Kelly Bushing Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2248</u> P.S.I.	Open Tool	<u>7:42A</u> M	
B First Initial Flow Pressure	<u>69</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>95</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>588</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>97</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>133</u> P.S.I.			
G Final Closed-in Pressure	<u>363</u> P.S.I.			
H Final Hydrostatic Mud	<u>2225</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of _____ Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of _____ Min.

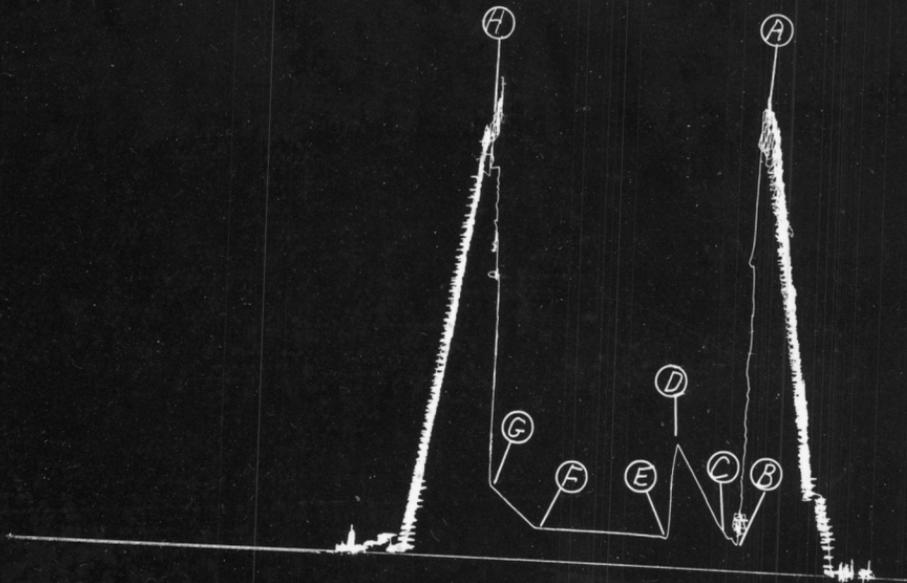
Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of _____ Min.

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>69</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>133</u>
P 2	<u>5</u>	<u>78</u>	<u>3</u>	<u>231</u>	<u>5</u>	<u>114</u>	<u>3</u>	<u>136</u>
P 3	<u>10</u>	<u>88</u>	<u>6</u>	<u>282</u>	<u>10</u>	<u>114</u>	<u>6</u>	<u>155</u>
P 4	<u>15</u>	<u>95</u>	<u>9</u>	<u>325</u>	<u>15</u>	<u>114</u>	<u>9</u>	<u>179</u>
P 5			<u>12</u>	<u>365</u>	<u>20</u>	<u>114</u>	<u>12</u>	<u>195</u>
P 6			<u>15</u>	<u>406</u>	<u>25</u>	<u>114</u>	<u>15</u>	<u>217</u>
P 7			<u>18</u>	<u>444</u>	<u>30</u>	<u>114</u>	<u>18</u>	<u>236</u>
P 8			<u>21</u>	<u>478</u>	<u>35</u>	<u>117</u>	<u>21</u>	<u>262</u>
P 9			<u>24</u>	<u>523</u>	<u>40</u>	<u>120</u>	<u>24</u>	<u>282</u>
P10			<u>27</u>	<u>560</u>	<u>45</u>	<u>122</u>	<u>27</u>	<u>298</u>
P11			<u>29</u>	<u>588</u>	<u>50</u>	<u>124</u>	<u>30</u>	<u>363</u>
P12					<u>55</u>	<u>125</u>		
P13					<u>60</u>	<u>126</u>		
P14					<u>65</u>	<u>128</u>		
P15					<u>70</u>	<u>129</u>		
P16					<u>75</u>	<u>130</u>		
P17					<u>80</u>	<u>131</u>		
P18					<u>85</u>	<u>133</u>		
P19								
P20								

K&E DRILLING COMPANY
KACHELMAN 2-A

T.K.T. 10954
TEST # 2





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

Company K & E Drilling Company Lease & Well No. Kachelman # 2-A
 Elevation 1968 Kelly Bushing Formation Simpson Effective Pay _____ Ft. Ticket No. 10955
 Date 1-30-69 Sec. 13 Twp. 25 Range 14 County Stafford State Kansas
 Test Approved by Harold Steineamp Western Representative Leon Elmpre

Formation Test No. 3 O.K. Misrun _____ Interval Tested From 4215' to 4256' Total Depth 4256'
 Size Main Hole 7 7/8" Cat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. B.T. _____ Damaged _____ Yes No
 Packer Depth 4210 Ft. Size 6 3/4 Packer Depth 4215 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 41 Ft. Size 5 1/2" OD

RECORDERS	Depth <u>4248</u> Ft.	Clock No. <u>6866</u>	Depth <u>4251</u> Ft.	Clock No. <u>8377</u>	
	Top Make <u>Kuster</u>	Cap. <u>4500</u>	No. <u>3085</u>	Bottom Make <u>Kuster</u>	Cap. <u>4400</u> No. <u>2603</u>
	Below Straddle: Depth _____	Clock No. _____	Depth _____ Ft.	Clock No. _____	
	Top Make _____	Cap. _____	No. _____	Bottom Make _____	Cap. _____ No. _____

Time Set Packer 3:27P M
 Tool Open I.F.P. From 3:28 M. to 3:43P M. Hr. 15 Min. From (B) 23 P.S.I. To (C) 23 P.S.I.
 Tool Closed I.C.I.P. From 3:43 M. to 4:13P M. Hr. 30 Min. (D) 1414 P.S.I.
 Tool Open F.F.P. From 4:13 M. to 5:13P M. 1 Hr. - Min. From (E) 38 P.S.I. To (F) 54 P.S.I.
 Tool Closed F.C.I.P. From 5:13 M. to 5:43P M. Hr. 30 Min. (G) 1335 P.S.I.
 Initial Hydrostatic Pressure (A) 2367 P.S.I. Final Hydrostatic Pressure (H) 2332 P.S.I.

SURFACE INFORMATION	Size Choke	In.	Max. Press. P.S.I.	Time	Description of Flow
	<u>3/4</u>			M.	
				M.	
				M.	

BLOW Weak for 15 minutes Bottom Choke Size 3/4 In.
 Did Well Flow _____ Yes No _____ Recovery Total Ft. 75 feet mud

Reversed Out _____ Yes No _____ Mud Type starch Viscosity 48 Weight 10.1 Water Loss 12.8 cc. Maximum Temp. 118 °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 3583 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 572 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 56 ft.
 I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 61 ft.

Remarks _____

K&E DRILLING COMPANY
KACHELMAN 2-A

T.K.T. 10955
TEST #3

