



JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 23614

Date 4-21-55 Customer's Order No. _____
COMPANY K & E Drilling Company
LEASE AND WELL No. Sutor #1
FIELD - COUNTY Graham STATE Kansas
Mail Inv. To 1006 Central Bldg. Wichita Kansas
Mail Charts To same

Formation Test No. <u>1</u> OK? ☒ Misrun? _____	Casing Test No. _____ OK? _____ Misrun? _____
Total Depth <u>3737'</u>	Total (or PB) Depth _____
Interval Tested <u>3715'</u> to <u>3737'</u>	Perforations _____ to _____
Size: Main Hole <u>7-7/8"</u> Rat Hole <u>7-7/8"</u>	Size Casing _____ Liner _____
Packer(s) Set At <u>3715'</u>	Packer(s) Set At _____
Packer Size <u>6-1/8"</u> Type <u>Wall</u>	Packer Size _____ Type _____
Anchor Length <u>22'</u> Size <u>4 1/2"</u> Type _____	Anchor Length _____ Size _____
Tool Size <u>3 1/2"</u> Tool Joint Size <u>4 1/2" F.H.</u>	Tool Size _____ Tool Joint Size _____

Fluid Cushion none Kind _____ Mud Weight 10.8 Viscosity 44
PRESSURE RECORDERS: Top Make Long Cap 3000 No; 440 Bottom Make Long Cap 3000 No. 420
Below Straddle Top Make _____ Cap _____ No; _____ Bottom Make _____ Cap _____ No. _____

RESULTS
Set Packer 5:31 M; Tool Open 1 Hrs. 1 Min: Shut-in _____ Hrs. 22 Min. Packer Set 1 Hrs. 33 Min.
Size Choke _____ Max. Press. psi _____ Time _____ Description (Rate) of Flow _____

Surface 1/2"
Information _____

Blow Weak. Bypassed tool twice - very weak throughout Bottom Choke Size 1/2"
test. Died in 31 min.
Max. Surface Press _____ # Did Well Flow? Yes _____ No ☒ ; Fluid Rise: 150'
Oil, _____ Gas, 150' muddy salt Water, _____ Mud, _____ Sand _____

REMARKS

Max. Temp. °F _____
Type Circulating Tool Sleeve Pump Press. none Hrs. _____ Min. _____
Bottom Hole Sample Bomb no Jar: Size none Make _____ No. _____
Extra Equipment none
Was Choke Plugged? no Perf. Plugged? no Other? - Did Mud Fall During Test? -
No. Rubbers Damaged? none Tool Rental Time 10 Operator's Time 12

JOHNSTON TESTERS, INC. shall not be liable for damage of any kind to the property or personnel of the party for whom a test is made, or for any loss suffered or sustained directly or indirectly, through or in the course of the use of its equipment, or its statement or opinion concerning the result of any test, all of which loss or damage is assumed by the customer. Tools lost or damaged in the hole shall be paid for at the cost by the party for whom test is made.

OPERATOR:

J. M. O'Connor

TEST APPROVED BY:

Bill Brodrick

No. of Copies Requested 3

LEASE AND WELL NO. Sutor #1

FORMATION TEST NO. 1

TIME: EACH SMALL SQUARE 10 MINS.

PSI
PRESSURE: EACH SMALL SQUARE 50

INITIAL MWD
PRESSURE
2080

FINAL MWD
PRESSURE
2050

SHUT IN
PRESSURE
660

INITIAL
FLOW
50

FINAL
90 FLOW

TOOL OPEN
61 MIN
SHUT IN
22 MIN

CHARGES

Formation Test at 3737 ', \$ 210.00*
Misrun at ', \$
Rental on Tools. —16 Hours at \$2.50
Safety Joint
Dual Wall Packers
Testing Between Two Packers
Service Charge
Mileage Charge. Mls. at \$
Jars
Operators' Time —16 Hours at \$2.50
Reservoir Sampler
Damaged Rubber Packer. X

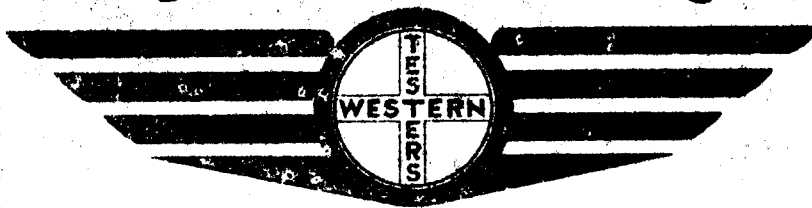
L-440

SUBSURFACE PRESSURE DATA

	Field Reading		Corrected Reading	
	TOP	BOTTOM	TOP	BOTTOM
Recorder No.			L-440	
Initial BH Flow			50	
Final BH Flow			90	
Max. Recorded Shut In			660	
Initial Hydrostatic			2080	
Final Hydrostatic			2050	

KANSAS

GREAT BEND . . . 7903
 HAYS . . . 4-3625
 PLAINVILLE . . . 4-4844
 HILL CITY . . . 358
 PRATT . . . 97
 KIOWA . . . 108



OKLAHOMA

CUSHING . . . 1781
 PERRY . . . 843
 HEALDTON . . . 739
 ARDMORE . . . 1575
 MARLOW . . . 220

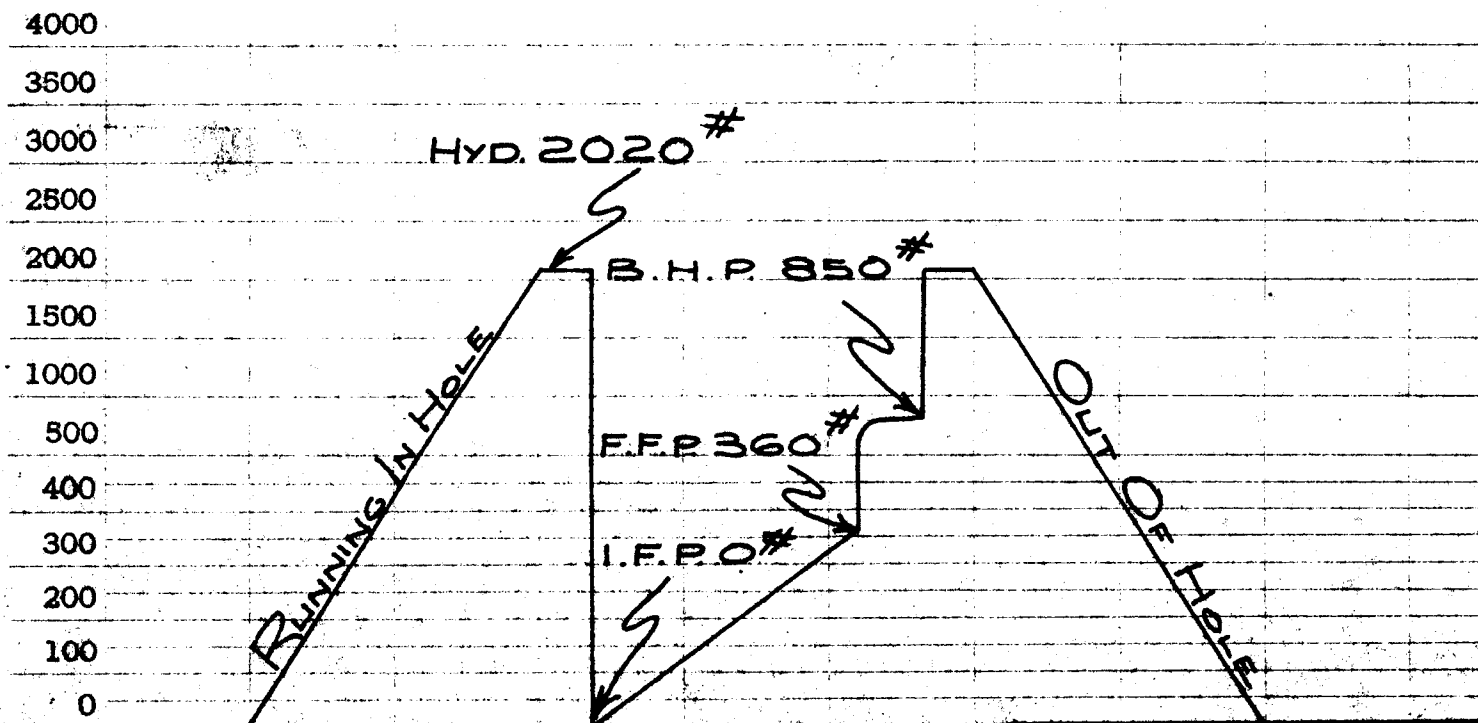
Post Office Box 393

Great Bend, Kansas

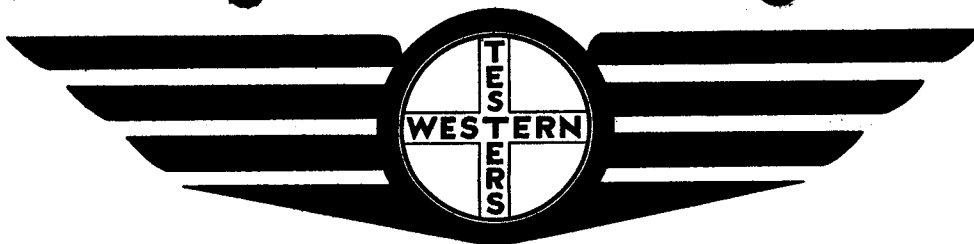
DEPTH PRESSURE CHART

Company K & E DRILLING Co. Well SUTOR #1
 Test No. 2 Ticket No. 4534 Date 4-22-55
 Depth 3810 Tested From 3790 To 3810
 Hydrostatic Mud Pressure-Initial 2020# Final 2020#
 Flow Pressure-Initial 0 Final 360# Bottom Hole Pressure-Initial — Final 850#
 Surface Pressure 0 Chokes-Top 1/2 Bottom 3/4
 Type Recorder WESTERN Recorder No. 5-6 Date Calibrated 3-13-55
 Tool Open 2 Hr. — Min. Initial Shut-In — Hr. — Min. Final Shut-In — Hr. 30 Min.
 Recovery:

1135 FT. FREE OIL
 GAS TO SURFACE @ 1 1/2 HR.



API 15-065-00105

31-9-22w
will file

Post Office Box 393

Telephone 7903

GREAT BEND, KANSAS

Date 4-22-55 Field Order No. _____Charge To K. & E. Dtg. Inc.Address 1006 Central Bldg. Wichita, Kans.Mail Charts To same. County GrahamNo. Charts ✓ Well No. 1 Lease SUTOT Test No. 2Successful Test No. 2 Misrun No. ✓Depth 3810' Packer Set 3790'Size Hole 7 7/8 Tool It. 4 1/2 F.H.Tool Open 2 Hr. Min. Shutin Press: F.F. 360#
P50# Time: Hr. Min. 30Blow Very strong blow thru out TESTFluid Rec. Gas to surface in 1 1/2 hrs.1135' of Free oilExtra Equipment ✓Jars ✓ Price of Job \$210.00Was Rubber Damaged ✓ Operator Time 10

Western Testing Co. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Approved By Bill BralichOur Representative Ray BruceTKT N^o 4534



JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 55689

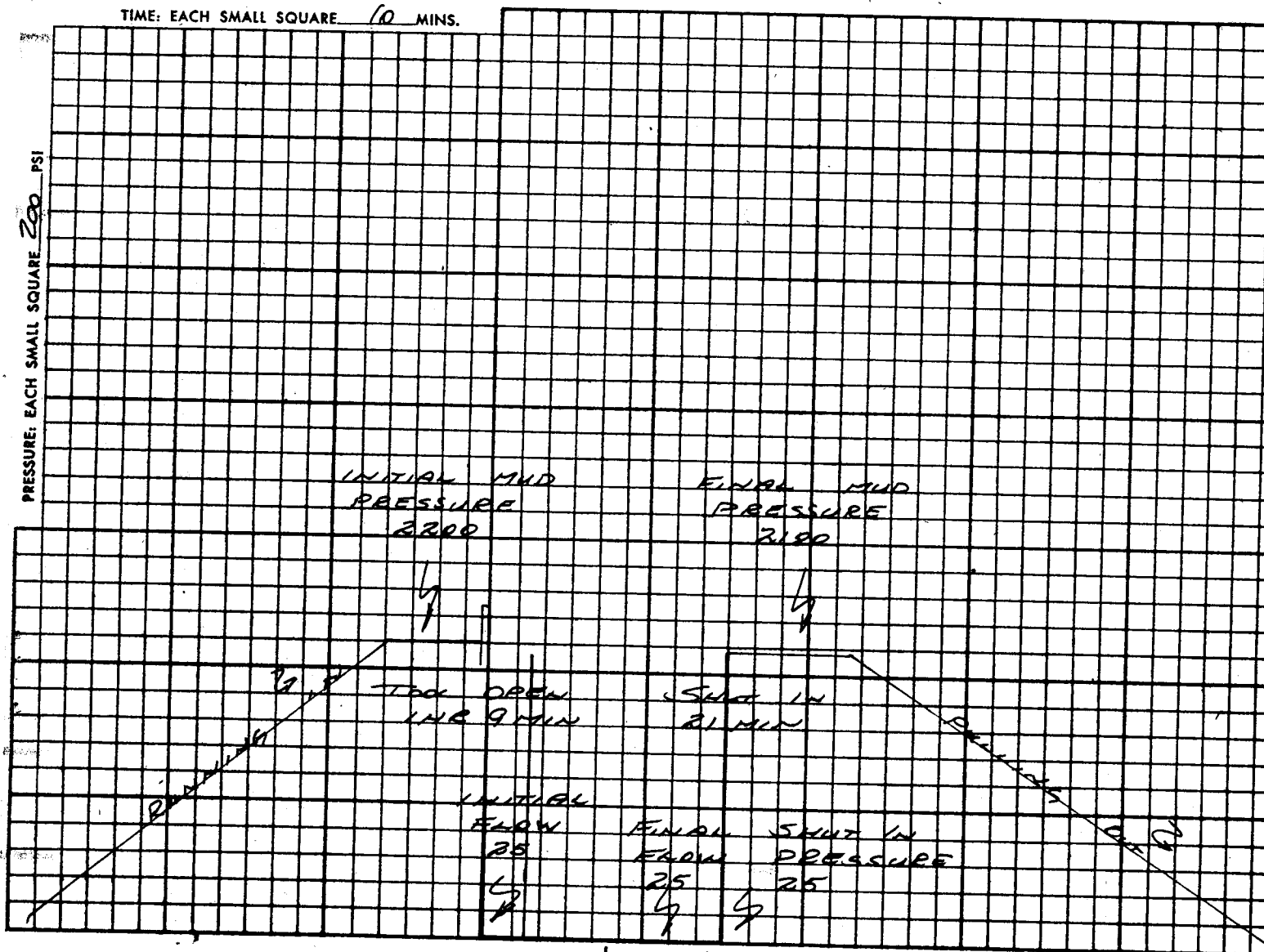
Date 4-23-55 Customer's Order No. _____
COMPANY K & E Drilling Company
LEASE AND WELL No. Sutor #1
FIELD W.C. 11-S 2-E Hill City COUNTY Graham STATE Kansas
Mail Inv. To 1006 Central Bldg. Wichita Kansas
Mail Charts To same

Formation Test No. <u>3</u> OK? <u>3</u> Misrun? _____	Casing Test No. _____ OK? _____ Misrun? _____
Total Depth <u>3829'</u>	Total (or PB) Depth _____
Interval Tested <u>3814'</u> to <u>3829'</u>	Perforations _____ to _____
Size: Main Hole <u>7-7/8"</u> Rat Hole <u>none</u>	Size Casing _____ Liner _____
Packer(s) Set At <u>3814'</u>	Packer(s) Set At _____
Packer Size <u>-</u> Type <u>B.T. Wall</u>	Packer Size _____ Type _____
Anchor Length <u>15'</u> Size <u>4 1/2"</u> Type _____	Anchor Length _____ Size _____
Tool Size <u>3 1/2"</u> Reg. Tool Joint Size <u>4 1/2"</u> F.H.	Tool Size _____ Tool Joint Size _____
Fluid Cushion <u>none</u> Kind _____ Mud Weight <u>10.6</u> Viscosity <u>38</u>	
PRESSURE RECORDERS: Top Make <u>Long</u> Cap <u>3000</u> No. <u>316</u> Bottom Make <u>Long</u> Cap <u>4500</u> No. <u>423</u>	
Below Straddle Top Make _____ Cap _____ No. _____ Bottom Make _____ Cap _____ No. _____	
RESULTS	
Set Packer <u>8:30 A</u> M; Tool Open <u>1</u> Hrs. <u>9</u> Min: Shut-in _____ Hrs. <u>21</u> Min. Packer Set <u>1</u> Hrs. <u>30</u> Min.	
Size Choke _____ Max. Press. psi _____ Time _____ Description (Rate) of Flow _____	
Surface <u>1/2"</u>	
Information _____	
Blow <u>Weak for 4 min. Flushed tool after 15 min.</u> Bottom Choke Size <u>-</u>	
Max. Surface Press. <u>-</u> # Did Well Flow? Yes _____ No <u>X</u> ; Fluid Rise: <u>40'</u>	
Oil, _____ Gas, _____ Water, <u>40' drlg.</u> Mud, _____ Sand _____	
REMARKS _____	
Max. Temp. °F _____	
Type Circulating Tool <u>Sleeve</u> Pump Press. <u>none</u> Hrs. _____ Min. _____	
Bottom Hole Sample Bomb <u>no</u> Jar: Size <u>none</u> Make _____ No. _____	
Extra Equipment <u>none</u>	
Was Choke Plugged? <u>no</u> Perf. Plugged? <u>no</u> Other? <u>no</u> Did Mud Fall During Test? <u>no</u>	
No. Rubbers Damaged? <u>none</u> Tool Rental Time <u>10</u> Operator's Time <u>12</u>	
JOHNSTON TESTERS, INC. shall not be liable for damage of any kind to the property or personnel of the party for whom a test is made, or for any loss suffered or sustained directly or indirectly, through or in the course of the use of its equipment, or its statement or opinion concerning the result of any test, all of which loss or damage is assumed by the customer. Tools lost or damaged in the hole shall be paid for at the cost by the party for whom test is made.	
OPERATOR: <u>C. T. Williams</u>	TEST APPROVED BY: <u>Bill Brodrick</u>
No. of Copies Requested <u>3</u>	

LEASE AND WELL NO. Sutor #1 Formation TEST NO. 3

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE: EACH SMALL SQUARE 200 PSI



CHARGES

Formation	Test at 3829'	\$ 210.00*
Misrun at	'	\$
Rental on Tools	—16 Hours at \$2.50	
Safety Joint		
Dual Wall Packers		
Testing Between Two Packers		
Service Charge		
Mileage Charge	Mls. at	\$
Jars		
Operators' Time	—16 Hours at \$2.50	
Reservoir Sampler		
Damaged Rubber Packer		X

L-316

SUBSURFACE PRESSURE DATA

	Field Reading		Corrected Reading	
	TOP	BOTTOM	TOP	BOTTOM
Recorder No.	L-316	L-423	L-316	
Initial BH Flow			25	
Final BH Flow			25	
Max. Recorded Shut In			25	
Initial Hydrostatic			2200	
Final Hydrostatic			2180	
Depth of Recorders	3828'	3829'		

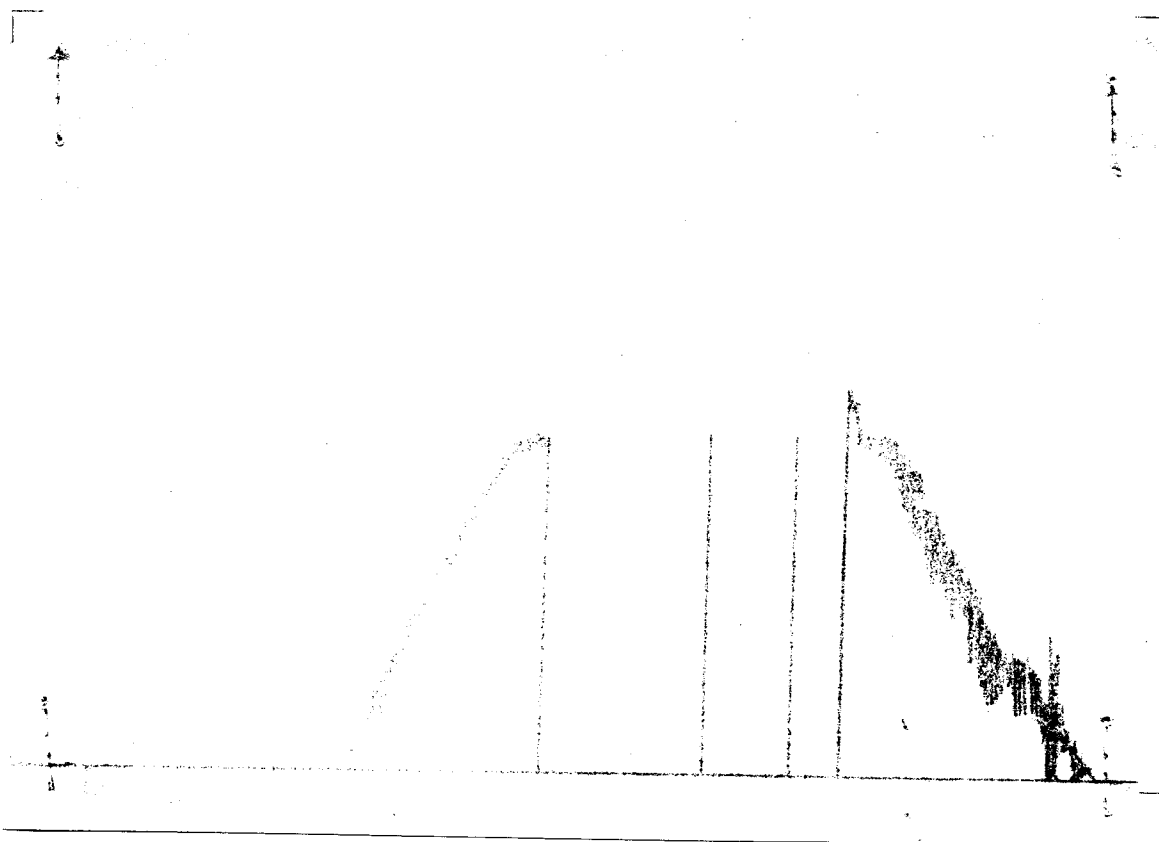
BEE FORMATION TESTING COMPANY, INC. *well file*

SUB-SURFACE RECORD

COMPANY K & E DRILLING COMPANY, INC. DATE OF TEST 4-23-55
WELL NO. 1 TEST NO. 4 LEASE Sutor
PRESSURE RECORDER CAP. 3500# & 3500# MUD WT. 10.4#
TOTAL DEPTH 3850' PACKER SET AT 3827'
RECOVERY 30' of rotary mud. Weak 3 minute blow and by passed tool.

Formation Tested: Kansas City

TOOL OPEN: 45 minutes
CHOKE SIZE: TOP 1/2" BOTTOM 1/2" NO. OF COPIES 1
OPERATOR D. K. Westhusin TEST TICKET NO. 1147
SHUT IN PRESSURE TIME 20 minutes BHP 0 IFP 0 FFP 0 MUD COLUMN PRESSURE 2100#
PACKER SEAT FAILURE TOOL PLUGGED ANCHOR PLUGGED





JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 55690

Date 4-25-55 Customer's Order No. _____
COMPANY K & E Drilling Inc.
LEASE AND WELL No. Sutor #1
FIELD W.C. 11-S 2-E Hill City COUNTY Graham STATE Kansas
Mail Inv. To 1006 Central Bldg. Wichita Kansas
Mail Charts To same

Formation Test No. <u>5</u> OK? <u>5</u> Misrun? _____	Casing Test No. _____ OK? _____ Misrun? _____
Total Depth <u>3913'</u>	Total (or PB) Depth _____
Interval Tested <u>3890'</u> to <u>3913'</u>	Perforations _____ to _____
Size: Main Hole <u>7-7/8"</u> Rat Hole <u>none</u>	Size Casing _____ Liner _____
Packer(s) Set At <u>3890'</u>	Packer(s) Set At _____
Packer Size <u>6-5/8"</u> Type <u>B.T. Wall</u>	Packer Size _____ Type _____
Anchor Length <u>23'</u> Size <u>4 1/2"</u> Type _____	Anchor Length _____ Size _____
Tool Size <u>3 1/2" Reg.</u> Tool Joint Size <u>4 1/2" F.H.</u>	Tool Size _____ Tool Joint Size _____

Fluid Cushion none Kind _____ Mud Weight 10.8 Viscosity 42
PRESSURE RECORDERS: Top Make Long Cap 3000 No. 316 Bottom Make Long Cap 4500 No. 423
Below Straddle Top Make _____ Cap _____ No. _____ Bottom Make _____ Cap _____ No. _____

RESULTS
Set Packer 12:10 PM; Tool Open _____ Hrs. 45 Min. Shut-in _____ Hrs. 23 Min. Packer Set 1 Hrs. 8 Min.
Size Choke _____ Max. Press. psi _____ Time _____ Description (Rate) of Flow _____

Surface 1/2"
Information _____

Blow Weak for 3 min. Bypassed after 19 min. Weak Bottom Choke Size _____
for 3 min. (cont'd in remarks)
Max. Surface Press _____ # Did Well Flow? Yes _____ No _____; Fluid Rise: 20'

Oil, _____ Gas, _____ Water, 20' drlg. Mud, _____ Sand _____
REMARKS Bypassed again after 21 min. - weak 3 min. Shut in after 45 min.

Max. Temp. °F _____
Type Circulating Tool sleeve Pump. Press. none Hrs. 1 Min. _____
Bottom Hole Sample Bomb no Jar: Size none Make _____ No. _____
Extra Equipment none
Was Choke Plugged? no Perf. Plugged? no Other? - Did Mud Fall During Test? no
No. Rubbers Damaged? none Tool Rental Time 10 Operator's Time 12

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OPERATOR: C. T. Williams TEST APPROVED BY: Bill Products
No. of Copies Requested 3

LEASE AND WELL NO.

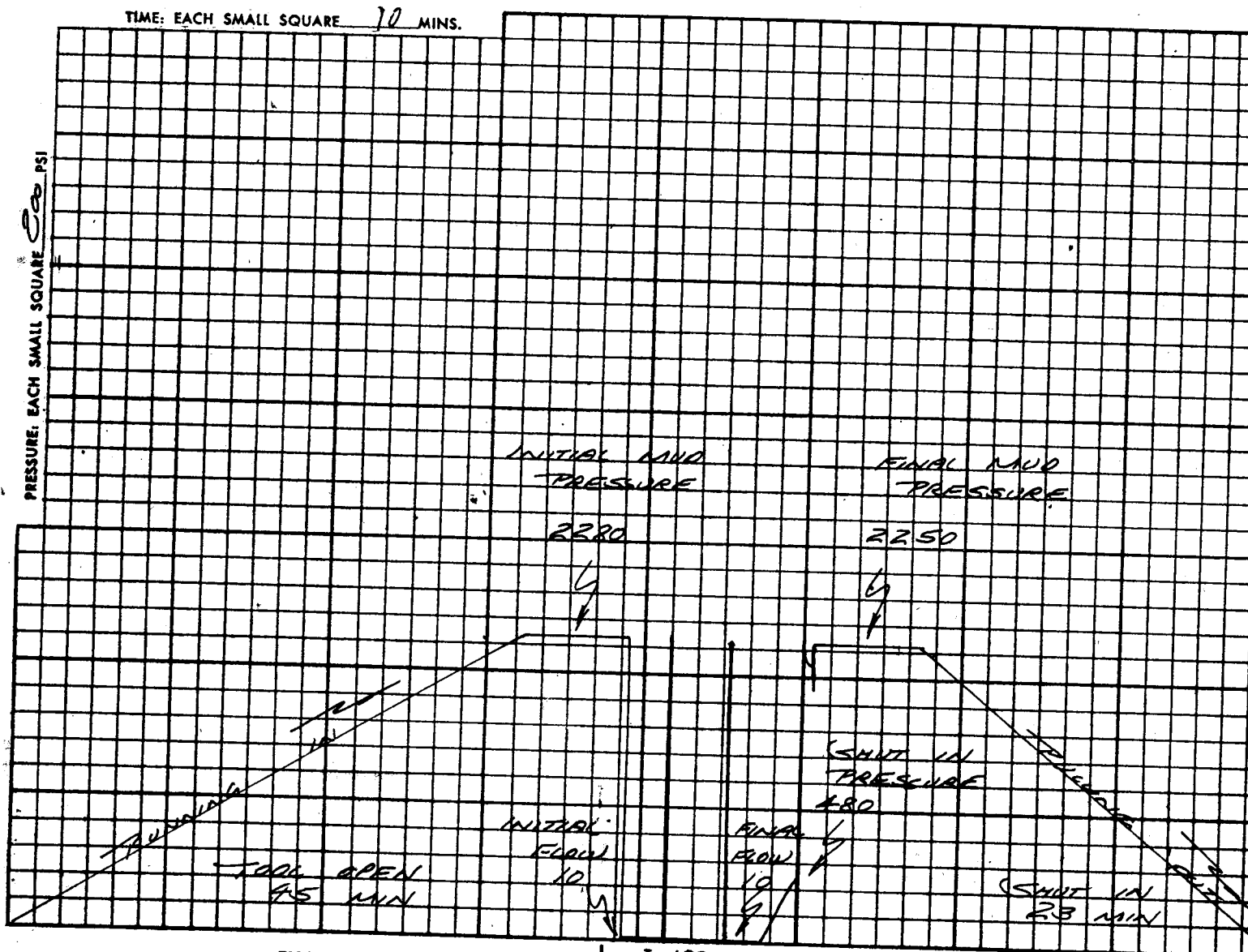
SUTOR #1

FORMATION

TEST NO. 5

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE: EACH SMALL SQUARE 200 PSI



CHARGES

Formation	Test at 3913	\$ 230.00*
Misrun at		
Rental on Tools	—16 Hours at \$2.50	
Safety Joint		
Dual Wall Packers		
Testing Between Two Packers		
Service Charge		
Mileage Charge	Mls. at	
Jars		
Operators' Time	—16 Hours at \$2.50	
Reservoir Sampler		
Damaged Rubber Packer	X	

L-423

SUBSURFACE PRESSURE DATA

	Field Reading		Corrected Reading	
	TOP	BOTTOM	TOP	BOTTOM
Recorder No.			L-316	L-423
Initial BH Flow				10
Final BH Flow				10
Max. Recorded Shut In				480
Initial Hydrostatic				2280
Final Hydrostatic				2250
Depth of Recorders			3912'	3913'