

Legal Location Sec. - Twp. - Rng. **MM-NE. 19-18-23**

Well No. **1**

Test No. **1**

Field Area **WILD CAT**

County **NESS**

State **KANSAS**

Lease Owner/Company Name **D. G. HANSEN PRUST**

Lease Name **Bondurant**

District **GREAT BEND**

Tested Interval **406 31-4110'**

<b>FLUID SAMPLE DATA</b>		Date <b>8-30-72</b>	Ticket Number <b>435684</b>
Sampler Pressure _____ P.S.I.G. at Surface		Kind of Job <b>OPEN HOLE</b>	Halliburton District <b>GREAT BEND</b>
Recovery: Cu. Ft. Gas _____		Tester <b>L. MOORE</b>	Witness <b>JERRY JESPERSON</b>
cc. Oil _____		Drilling Contractor <b>C. &amp; G. DRILLING COMPANY DR</b>	
cc. Water _____		<b>EQUIPMENT &amp; HOLE DATA</b>	
cc. Mud _____		Formation Tested <b>Marmaton</b>	
Tot. Liquid cc. _____		Elevation _____ Ft.	
Gravity _____ ° API @ _____ °F.		Net Productive Interval _____ Ft.	
Gas/Oil Ratio _____ cu. ft./bbl.		All Depths Measured From <b>Kelly Bushing</b>	
RESISTIVITY _____ CHLORIDE CONTENT _____		Total Depth <b>4110'</b> Ft.	
Recovery Water _____ @ _____ °F. _____ ppm		Main Hole/Casing Size <b>7 7/8"</b>	
Recovery Mud _____ @ _____ °F. _____ ppm		Drill Pipe Length <b>899'</b> I.D. <b>2.764"</b>	
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm		Drill Pipe Length <b>3169'</b> I.D. <b>3.826"</b>	
Mud Pit Sample _____ @ _____ °F. _____ ppm		Packer Depth(s) <b>4058'-4063'</b> Ft.	
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm		Depth Tester Valve <b>4046'</b> Ft.	
Mud Weight <b>9.9</b> vis <b>42</b> cp			

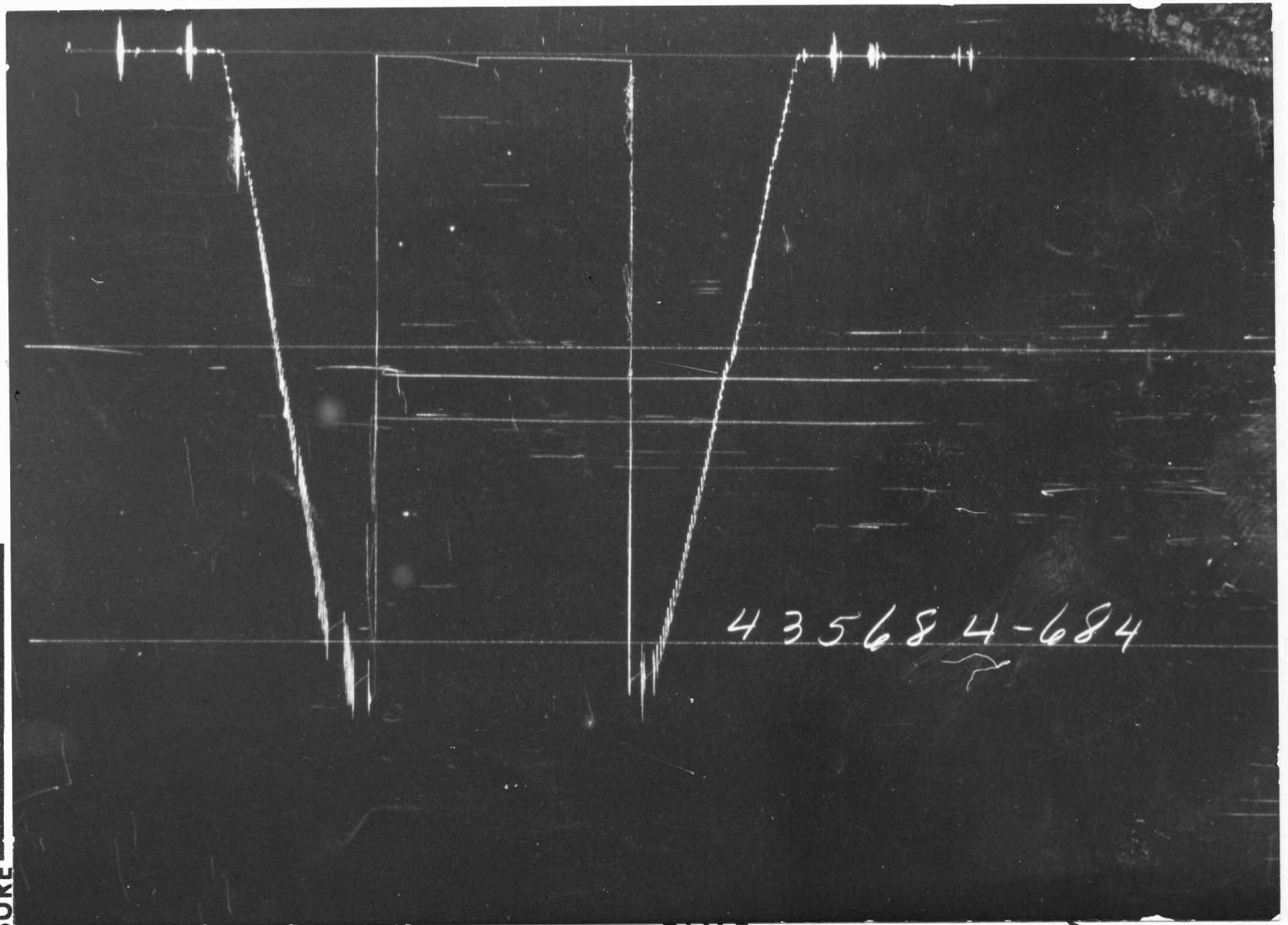
TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Cushion			<b>1/4"</b>	<b>3/4"</b>
Recovered	<b>20</b> Feet of <b>drilling mud</b>			
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			
Remarks <b>SEE PRODUCTION TEST DATA SHEET</b>				

TEMPERATURE	Gauge No. <b>684</b>	Gauge No. <b>528</b>	Gauge No.	TIME
	Depth: <b>4051'</b> Ft.	Depth: <b>4105'</b> Ft.	Depth: _____ Ft.	
Est. <b>110</b> °F.	<b>12</b> Hour Clock	<b>12</b> Hour Clock	Hour Clock	Tool <del>XXX</del>
<b>4104'@</b>	Blanked Off <b>NO</b>	Blanked Off <b>YES</b>	Blanked Off	Opened <b>10:10</b> P.M.
Actual <b>110</b> °F.	Pressures	Pressures	Pressures	Tool <b>A.M.</b>
	Field	Office	Field	Closed <b>12:40</b> <del>XXX</del>
Initial Hydrostatic		<b>2112</b>	<b>2126</b> <b>2141</b>	Reported
Flow Initial		<b>11</b>	<b>43</b> <b>43</b>	Minutes
Flow Final		<b>13</b>	<b>52</b> <b>45</b>	Computed
Closed in		<b>43</b>	<b>69</b> <b>71</b>	Minutes
Flow Initial		<b>16</b>	<b>43</b> <b>55</b>	Minutes
Flow Final		<b>17</b>	<b>52</b> <b>56</b>	Minutes
Closed in		<b>24</b>	<b>52</b> <b>52</b>	Minutes
Flow Initial				Minutes
Flow Final				Minutes
Closed in				Minutes
Final Hydrostatic		<b>2012</b>	<b>2091</b> <b>2128</b>	Minutes



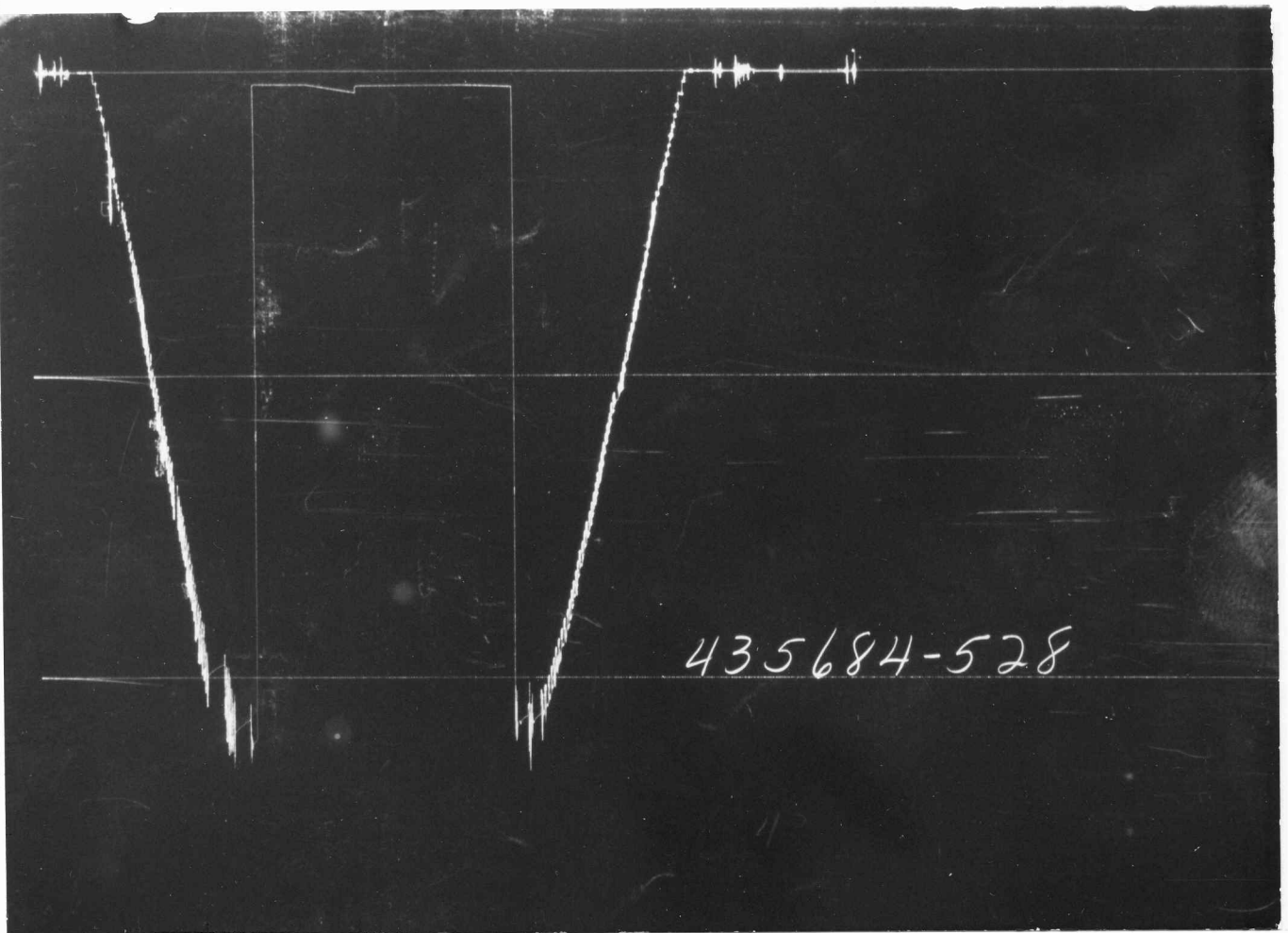


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3169'	
Drill Collars	4 1/2"	2.764"	899'	
XXXXXXXXX WGHY PIPE				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4046'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4051'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4058'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4063'
Flush Joint Anchor	5"	2.37"	39'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4105'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



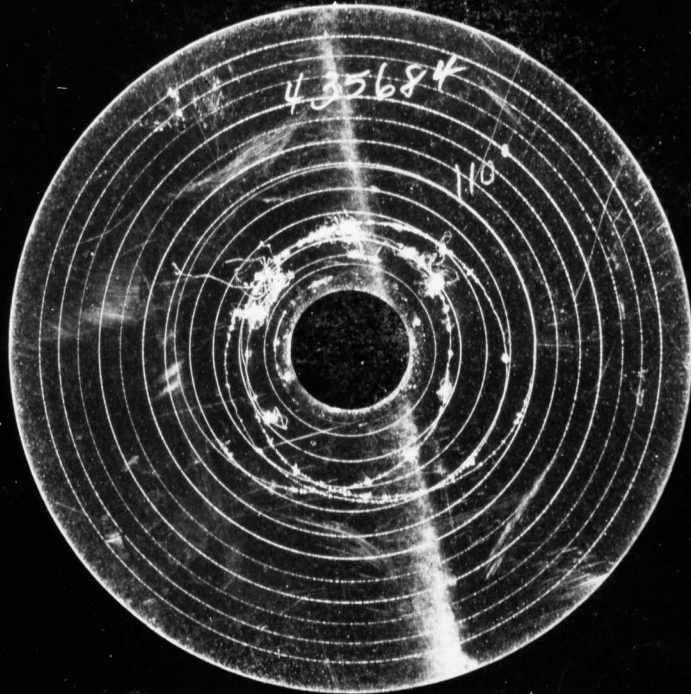
PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.

# TEMPERATURE RECORDER CHART



10° each circle

- $Q_{T4}$  = Theoretical Open Flow Potential with/Damage Removed Min. . . . . MCF/D
- $P_s$  = Extrapolated Static Pressure . . . . . Psig.
- $P_f$  = Final Flow Pressure . . . . . Psig.
- $P_{ot}$  = Potentiometric Surface (Fresh Water \*) . . . . . Feet
- $Q$  = Average Adjusted Production Rate During Test . . . . . bbls/day
- $Q_1$  = Theoretical Production w/Damage Removed . . . . . bbls/day
- $Q_g$  = Measured Gas Production Rate . . . . . MCF/D
- $R$  = Corrected Recovery . . . . . bbls
- $r_w$  = Radius of Well Bore . . . . . Feet
- $t$  = Flow Time . . . . . Minutes
- $t_o$  = Total Flow Time . . . . . Minutes
- $T$  = Temperature Rankine . . . . . °R
- $Z$  = Compressibility Factor . . . . . —
- $\mu$  = Viscosity Gas or Liquid . . . . . CP
- Log** = Common Log

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

DUNNOKAN 1  
 Lease Name  
 Legal Location Sec. - Twp. - Rnd.  
 19 18 23  
 Well No. 1  
 Test No. 2  
 Field Area WILDCAT  
 Tested Interval 4:42 - 4:28  
 County NESS  
 State KANSAS  
 Lease Owner/Company Name D. G. HANSEN TRUST

<b>FLUID SAMPLE DATA</b>	Date <b>9-1-72</b>	Ticket Number <b>435685</b>
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job <b>OPEN HOLE</b>	Halliburton District <b>GREAT BEND</b>
Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____	Tester <b>L. MOORE</b>	Witness <b>JERRY JESPERSON</b>
Gravity _____ ° API @ _____ ° F.	Drilling Contractor <b>C &amp; G DRILLING COMPANY SM</b>	
Gas/Oil Ratio _____ cu. ft./bbl.	<b>EQUIPMENT &amp; HOLE DATA</b>	

	Formation Tested <b>Fort Scott</b>	
	Elevation _____ Ft.	
	Net Productive Interval _____ Ft.	
	All Depths Measured From <b>Kelly bushing</b>	
	Total Depth <b>4258'</b>	
	Main Hole/Casing Size <b>7 7/8 "</b>	
	Drill Collar Length <b>899'</b> I.D. <b>2.764" WP</b>	
	Drill Pipe Length <b>3334'</b> I.D. <b>3.826"</b>	
	Packer Depth(s) <b>4237- 4242'</b>	
	Depth Tester Valve <b>4225'</b>	

TYPE	AMOUNT	Depth Back Ft.	Pres. Valve	Surface Choke	Bottom Choke
Cushion				<b>1/4"</b>	<b>3/4"</b>

Recovered	<b>5</b>	Feet of	thin mud with trace of oil	Med. From Tester Valve
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		

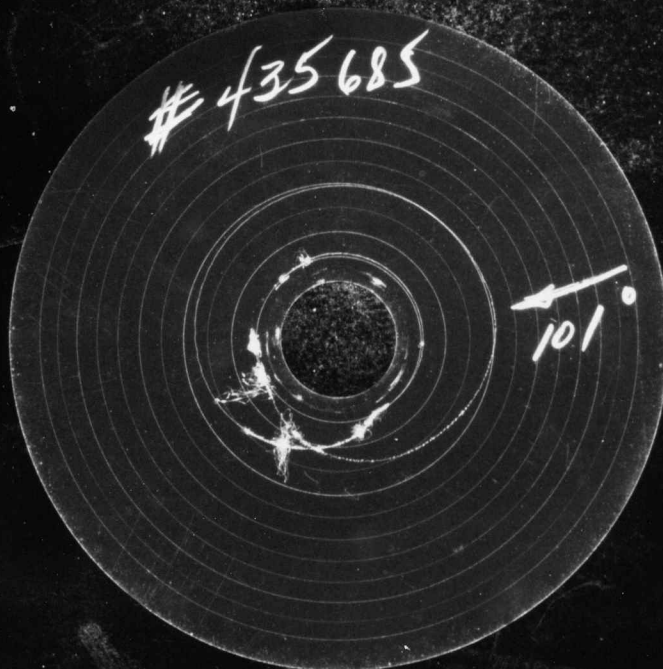
Remarks Tool opened for 30 minute first flow with very weak blow for 20 minutes and died. Closed for 30 minute first closed in pressure. Tool reopened for 30 minute second flow with no blow. Closed tool for 30 minute second closed in pressure.

TEMPERATURE	Gauge No. <b>684</b>		Gauge No. <b>528</b>		Gauge No.		TIME	
	Depth:	<b>4230</b> Ft.	Depth:	<b>4253</b> Ft.	Depth:	Ft.	Hour Clock	
Est. <b>4252'</b> °F.	Blanked Off <b>no</b>		Blanked Off <b>yes</b>		Blanked Off		Tool Opened <b>6:25</b> P.M.	
Actual <b>101'</b> °F.	Pressures		Pressures		Pressures		Tool Closed <b>8:25</b> P.M.	
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	-	<b>2169</b>	<b>2196</b>	<b>2179</b>				
First Period	Flow Initial	-	<b>6</b>	<b>17</b>	<b>21</b>			
	Flow Final	-	<b>6</b>	<b>17</b>	<b>21</b>		<b>30</b>	
	Closed in	-	<b>48</b>	<b>60</b>	<b>59</b>		<b>30</b>	
Second Period	Flow Initial	-	<b>9</b>	<b>17</b>	<b>27</b>			
	Flow Final	-	<b>9</b>	<b>17</b>	<b>23</b>		<b>30</b>	
	Closed in	-	<b>24</b>	<b>43</b>	<b>36</b>		<b>30</b>	
Third Period	Flow Initial							
	Flow Final							
Final Hydrostatic	-	<b>2146</b>	<b>2187</b>	<b>2156</b>				



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3334'	
Drill Collars	4 1/2"	2.764"	899'	Weight Pipe
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4225'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4230'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4237'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4242'
Flush Joint Anchor	5"	2.37"	8'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4253'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

TEMPERATURE  
RECORDER  
CHART



10° each circle

