



Home Office: Wichita, Kansas 67201  
 P. O. Box 1599 (316) 838-0601

Company Graves Etal. Lease & Well No. #1 Lorene  
 Elevation - Formation Mississippi Effective Pay - Ft. Ticker No. #21650  
 Date 9-17-76 Sec. 4 Twp. 32S Range 12W County Barber State Kansas  
 Test Approved by Fred Stump Western Representative Lonnie Cline

Formation Test No. 2 O.K.  Misrun  Interval Tested From 4238' to 4258' Total Depth 4258'  
 Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 4233' Ft. Size 6 3/4 Bottom Packer Depth 4238 Ft. Size 6 3/4  
 Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Ft. Size -  
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4251 Ft. Clock No. 6799 Depth 4254 Ft. Clock No. 9726  
 Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 10:43 P M  
 Tool Open I.F.P. From 10:45P M. to 11:00P M. - Hr. 15 Min. From (B) 46 P.S.I. To (C) 33 P.S.I.  
 Tool Closed I.C.I.P. From 11:00P M. to 11:45P M. - Hr. 45 Min (D) 686 P.S.I.  
 Tool Open F.F.P. From 11:45P M. to 12:45A M. 1 Hr. - Min. From (E) 56 P.S.I. To (F) 53 P.S.I.  
 Tool Closed F.C.I.P. From 12:45A M. to 1:30A M. - Hr. 45 Min. (G) 560 P.S.I.  
 Initial Hydrostatic Pressure (A) 2245 P.S.I. Final Hydrostatic Pressure (H) 2232 P.S.I. Maximum Temp. 123

**INFORMATION**

BLOW Good blow throughout the test.

Did Well Flow - Yes  No Recovery Total Ft. 90' slightly oil and gas-cut mud.

Reversed Out - Yes  No Mud Type starch Viscosity 45 Weight 9.8 Water Loss 15.6 cc. Chlorides 73,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Co. Tools Length Drill Pipe? 3977 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 152 Ft. I.D. Weight Pipe 2 1/4 IO In. Tool Joint Size 6 FH In. Length Drill Collars 89 Ft. I.D. Drill Collars 2 1/4 IO In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 40 Ft.

Remarks:

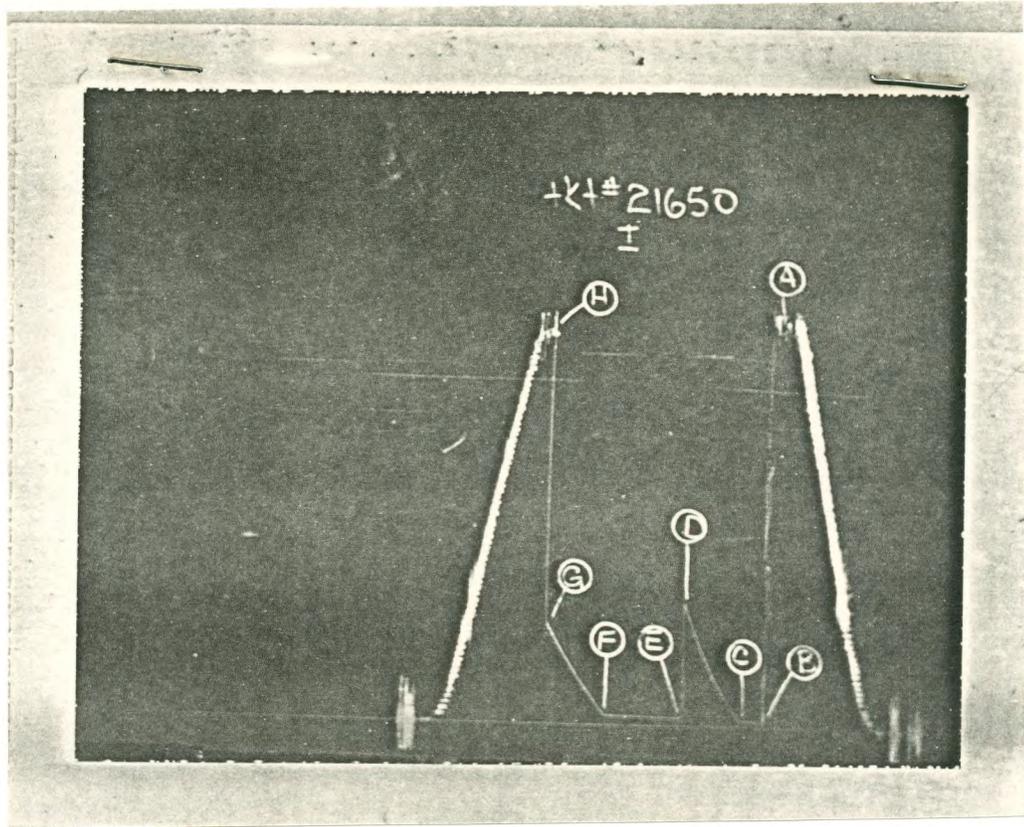
**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 9-17-76 Test Ticket No. #21650  
 Recorder No. 2606 Capacity 4150 Location 4251 Ft.  
 Clock No. 6799 Elevation - Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2245</u> P.S.I.	Open Tool	<u>10:43P</u> M	
B First Initial Flow Pressure	<u>46</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>686</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>53</u> P.S.I.			
G Final Closed-in Pressure	<u>560</u> P.S.I.			
H Final Hydrostatic Mud	<u>2232</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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 <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>53</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>44</u>	<u>3</u>	<u>68</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>73</u>	<u>10</u>	<u>44</u>	<u>6</u>	<u>98</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>102</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>127</u>
P 5		<u>12</u>	<u>133</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>158</u>
P 6		<u>15</u>	<u>168</u>	<u>25</u>	<u>47</u>	<u>15</u>	<u>187</u>
P 7		<u>18</u>	<u>202</u>	<u>30</u>	<u>47</u>	<u>18</u>	<u>216</u>
P 8		<u>21</u>	<u>241</u>	<u>35</u>	<u>48</u>	<u>21</u>	<u>247</u>
P 9		<u>24</u>	<u>283</u>	<u>40</u>	<u>49</u>	<u>24</u>	<u>279</u>
P10		<u>27</u>	<u>329</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>312</u>
P11		<u>3-</u>	<u>377</u>	<u>50</u>	<u>51</u>	<u>30</u>	<u>347</u>
P12		<u>33</u>	<u>427</u>	<u>55</u>	<u>52</u>	<u>33</u>	<u>383</u>
P13		<u>36</u>	<u>479</u>	<u>60</u>	<u>53</u>	<u>36</u>	<u>421</u>
P14		<u>39</u>	<u>535</u>			<u>39</u>	<u>458</u>
P15		<u>42</u>	<u>589</u>			<u>42</u>	<u>498</u>
P16		<u>45</u>	<u>686</u>			<u>45</u>	<u>560</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	2240	2245	PSI
(B) First Initial Flow Pressure .....	31	46	PSI
(C) First Final Flow Pressure .....	31	33	PSI
(D) Initial Closed-in Pressure .....	686	686	PSI
(E) Second Initial Flow Pressure .....	41	56	PSI
(F) Second Final Flow Pressure .....	41	53	PSI
(G) Final Closed-in Pressure .....	572	560	PSI
(H) Final Hydrostatic Mud .....	2240	2232	PSI