



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

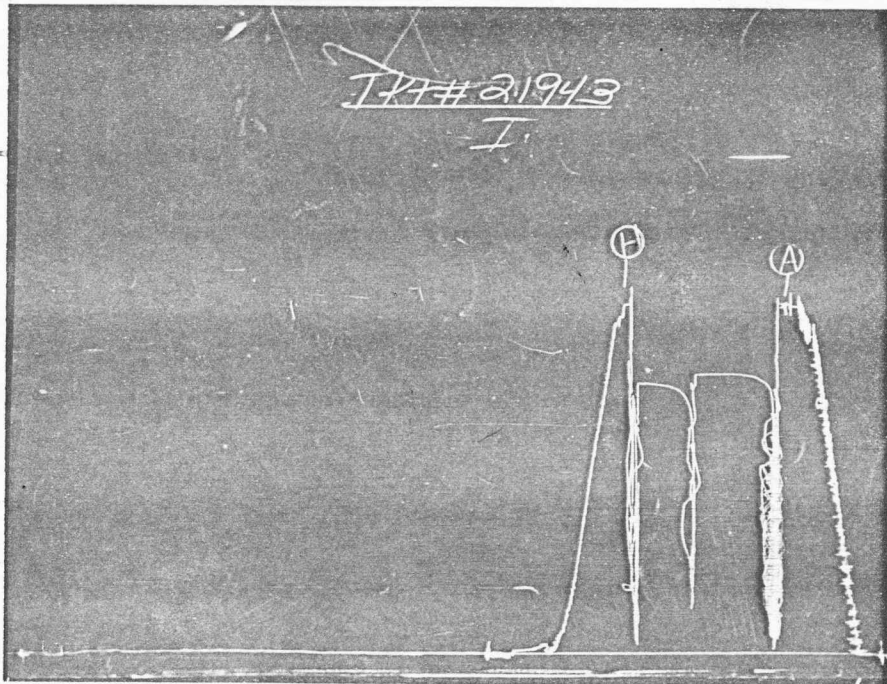
Company Cowley County Operating Company Lease & Well No. Allen #1-C  
 Elevation 1243 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticker No. 21943  
 Date 8-24-77 Sec. 7 Twp. 34S Range 7E County Cowley State Kansas  
 Test Approved by Toby Elster Western Representative Norman Allen  
 Formation Test No. 1 O.K. - Misrun X Interval Tested From 2907' to 2930' Total Depth 2930'  
 Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No  
 Top Packer Depth 2902 Ft. Size 6 3/4 Bottom Packer Depth 2907 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 23 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 2921 Ft. Clock No. 8474 Depth 2924 Ft. Clock No. 9721  
 Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside  
 Time Set Packer 8:28A. M  
 Tool Open I.F.P. From 8:30A M. to 9:30A M. - Hr. 60 Min. From (B) - P.S.I. To (C) - P.S.I.  
 Tool Closed I.C.I.P. From 9:30A M. to 10:15A M. - Hr. 45 Min (D) - P.S.I.  
 Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.  
 Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.  
 Initial Hydrostatic Pressure (A) 1481 P.S.I. Final Hydrostatic Pressure (H) 1481 P.S.I. Maximum Temp. -

**--- INFORMATION**

BLOW Fair blow, died in 35 minutes.

Did Well Flow - Yes X No Recovery Total Ft. Misrun

Reversed Out - Yes X No Mud Type Chem Viscosity 32 Weight 9.3 Water Loss 18.0 cc. Chlorides 2800 PPM  
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -  
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? Yes Where? Anchor and Tool  
 DRILLING CONTRACTOR Blue Streak Drlg. Co. Length Drill Pipe? 2677 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.  
 Length Weight Pipe 310 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.  
 Tool Joint Size - In. Length D.S.T. Tool 43 Ft.  
 Remarks: Slid tool 15' to reach bottom, tool would not go to bottom.  
Plugged tool. Misrun.



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....		1481	PSI
(B) First Initial Flow Pressure .....			PSI
(C) First Final Flow Pressure .....			PSI
(D) Initial Closed-in Pressure .....			PSI
(E) Second Initial Flow Pressure .....			PSI
(F) Second Final Flow Pressure .....			PSI
(G) Final Closed-in Pressure .....			PSI
(H) Final Hydrostatic Mud .....		1481	PSI



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Company Cowley County Operating Company Lease & Well No. Allen #1-C  
 Elevation 1243 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 21944  
 Date 8-25-77 Sec. 7 Twp. 34S Range 7E County Cowley State Kansas  
 Test Approved by Lars Larson Western Representative Norman Allen  
 Formation Test No. 2 O.K.  Misrun  Interval Tested From 2910' to 2970' Total Depth 2970'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 2905 Ft. Size 6 3/4 Bottom Packer Depth 2910 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 60 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 2931 Ft. Clock No. 8474 Depth 2934 Ft. Clock No. 9727  
 Top Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside  
 Time Set Packer 3:52A. M  
 Tool Open I.F.P. From 3:55A M. to 4:55A M. - Hr. 60 Min. From (B) 50 P.S.I. To (C) 49 P.S.I.  
 Tool Closed I.C.I.P. From 4:55A M. to 5:55A M. - Hr. 60 Min (D) 814 P.S.I.  
 Tool Open F.F.P. From 5:55A M. to 6:25A M. - Hr. 30 Min. From (E) 71 P.S.I. To (F) 56 P.S.I.  
 Tool Closed F.C.I.P. From 6:25A M. to 7:25A M. - Hr. 60 Min. (G) 752 P.S.I.  
 Initial Hydrostatic Pressure (A) 1465 P.S.I. Final Hydrostatic Pressure (H) 1451 P.S.I. Maximum Temp. 118

**INFORMATION**

BLOW Very weak blow decreasing slightly at end of test.

Did Well Flow -Yes  No Recovery Total Ft. 50' of oil cut mud with free oil in top 2' of fluid.

Reversed Out  Yes  No Mud Type Chem Viscosity 44 Weight 9.7 Water Loss 18.0 cc. Chlorides 2800 PPM

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 Blue Streak Drllg. Co. Length Drill Pipe? 2582 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 310 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 78 Ft.

Remarks: Tool slid 3' to bottom.

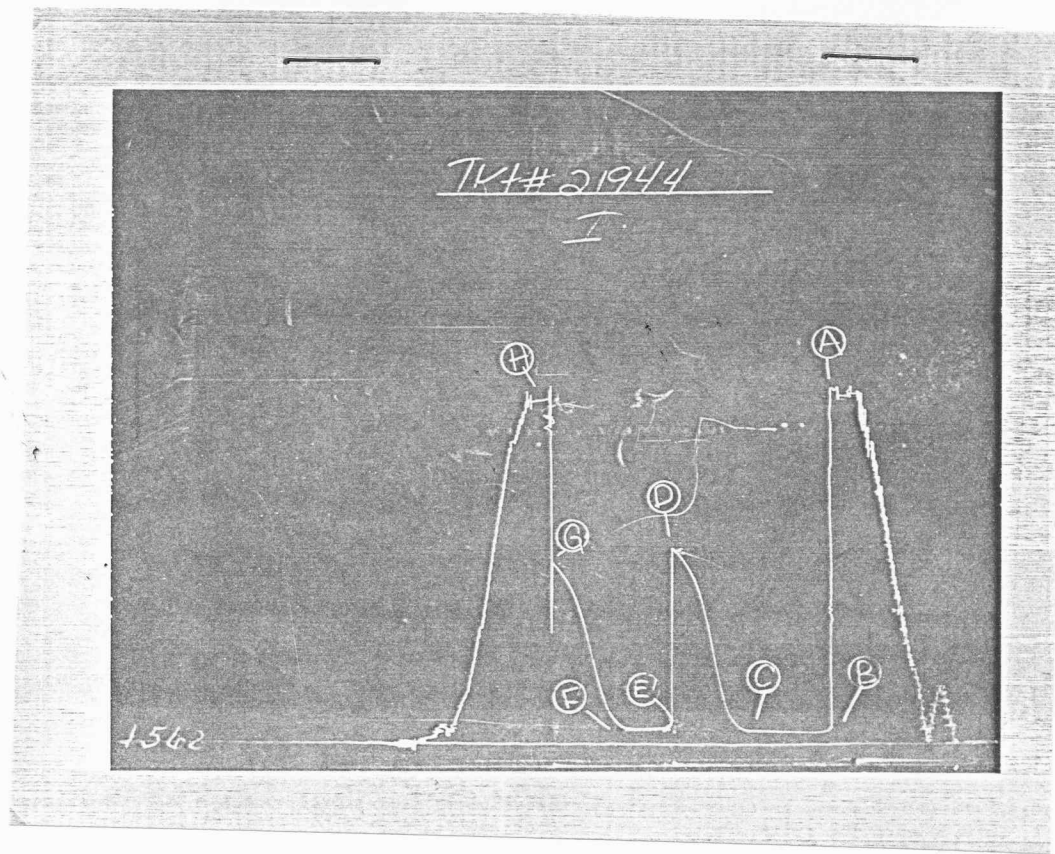
**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-25-77 Test Ticket No. 21944  
 Recorder No. 1562 Capacity 3150 Location 2931 Ft.  
 Clock No. 8474 Elevation 1243 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1465</u> P.S.I.	Open Tool	<u>3:52A</u> M	
B First Initial Flow Pressure	<u>50</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>814</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>71</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.			
G Final Closed-in Pressure	<u>752</u> P.S.I.			
H Final Hydrostatic Mud	<u>1451</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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>0</u>	<u>49</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>56</u>
P 2	<u>5</u>	<u>3</u>	<u>50</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>58</u>
P 3	<u>10</u>	<u>6</u>	<u>55</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>66</u>
P 4	<u>15</u>	<u>9</u>	<u>64</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>77</u>
P 5	<u>20</u>	<u>12</u>	<u>79</u>	<u>20</u>	<u>56</u>	<u>12</u>	<u>93</u>
P 6	<u>25</u>	<u>15</u>	<u>100</u>	<u>25</u>	<u>56</u>	<u>15</u>	<u>116</u>
P 7	<u>30</u>	<u>18</u>	<u>133</u>	<u>30</u>	<u>56</u>	<u>18</u>	<u>146</u>
P 8	<u>35</u>	<u>21</u>	<u>193</u>			<u>21</u>	<u>197</u>
P 9	<u>40</u>	<u>24</u>	<u>258</u>			<u>24</u>	<u>249</u>
P10	<u>45</u>	<u>27</u>	<u>333</u>			<u>27</u>	<u>314</u>
P11	<u>50</u>	<u>30</u>	<u>421</u>			<u>30</u>	<u>385</u>
P12	<u>55</u>	<u>33</u>	<u>500</u>			<u>33</u>	<u>453</u>
P13	<u>60</u>	<u>36</u>	<u>576</u>			<u>36</u>	<u>517</u>
P14		<u>39</u>	<u>630</u>			<u>39</u>	<u>568</u>
P15		<u>42</u>	<u>674</u>			<u>42</u>	<u>610</u>
P16		<u>45</u>	<u>710</u>			<u>45</u>	<u>646</u>
P17		<u>48</u>	<u>739</u>			<u>48</u>	<u>676</u>
P18		<u>51</u>	<u>764</u>			<u>51</u>	<u>700</u>
P19		<u>54</u>	<u>786</u>			<u>54</u>	<u>724</u>
P20		<u>57</u>	<u>807</u>			<u>57</u>	<u>739</u>
		<u>60</u>	<u>814</u>			<u>60</u>	<u>752</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1468	1465	PSI
(B) First Initial Flow Pressure .....	54	50	PSI
(C) First Final Flow Pressure .....	70	49	PSI
(D) Initial Closed-in Pressure .....	831	814	PSI
(E) Second Initial Flow Pressure .....	86	71	PSI
(F) Second Final Flow Pressure .....	86	56	PSI
(G) Final Closed-in Pressure .....	745	752	PSI
(H) Final Hydrostatic Mud .....	1476	1451	PSI