



Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Dubbs #E -1
 Elevation 2522 D. F. Ticket Number 3730
 Date 5-13-64 Sec. 26 Twp. 16s Range 24w County Ness State Kansas
 Test Approved by George E. Link Western Representative Jack Toelkes

Formation Test No. 1 O.K. Misrun Interval Tested From 4476' to 4520' Total Depth 4520'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 4471 Ft. Size 6 3/4 Packer Depth 4476 Ft. Size 6 3/4
 Straddle Yes No Conv. B.T. Damaged Yes No
 Tool Size 5 1/2 O D Tool Jt. Size 4 1/2 F. H. Anchor Length 44 Ft. Size 5 1/2 O D

RECORDERS
 Depth 4514 Ft. Clock No. 6892 Depth 4517 Ft. Clock No. 142
 Top Make Amerada Cap. 4382 No. 1567 Inside Outside Bottom Make Western Cap. 3000 No. 30 Inside Outside
 Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
 Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 4:06 P M
 Tool Open I.F.P. From 4:08 P M to 4:10 P M Hr. 2 Min. From (B) 34 P.S.I. To (C) 38 P.S.I.
 Tool Closed I.C.I.P. From 4:10 M. to 4:40 M. Hr. 30 Min. (D) 1309 P.S.I.
 Tool Open F.F.P. From 4:40 P M. to 5:40 M. 1 Hr. = Min. From (E) 71 P.S.I. To (F) 270 P.S.I.
 Tool Closed F.C.I.P. From 5:40 M. to 6:10 M. Hr. 30 Min. (G) 1146 P.S.I.
 Initial Hydrostatic Pressure (A) 2441 P.S.I. Final Hydrostatic Pressure (H) 2422 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
 INFORMATION _____ M. _____
 _____ M. _____
 _____ M. G. R. / 42.5 @ 85°F

BLOW Strong throughout test Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 190' G. I. P. 440' Clean gassy oil 310' muddy gassy oil

Reversed Out Yes No Mud Type Starch Viscosity 45 Weight 10 Maximum Temp. 118 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint _____ Jars: Size _____ Make _____ Ser. No. _____

Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe 3587 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D. S. T. Tool 63 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 5-13-64 Test Ticket No. 3730
 Recorder No. 1567 Capacity 4300 Location 4514 Ft.
 Clock No. 6892 Elevation 2522 Derrick floor Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>2441</u>	P.S.I.	Opened Tool	<u>4:06 P</u>	M
B First Initial Flow Pressure <u>34</u>	P.S.I.	First Flow Pressure	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure <u>38</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure <u>1309</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>57</u> Mins.
E Second Initial Flow Pressure <u>71</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure <u>270</u>	P.S.I.			
G Final Closed-in Pressure <u>1146</u>	P.S.I.			
H Final Hydrostatic Mud <u>2422</u>	P.S.I.			

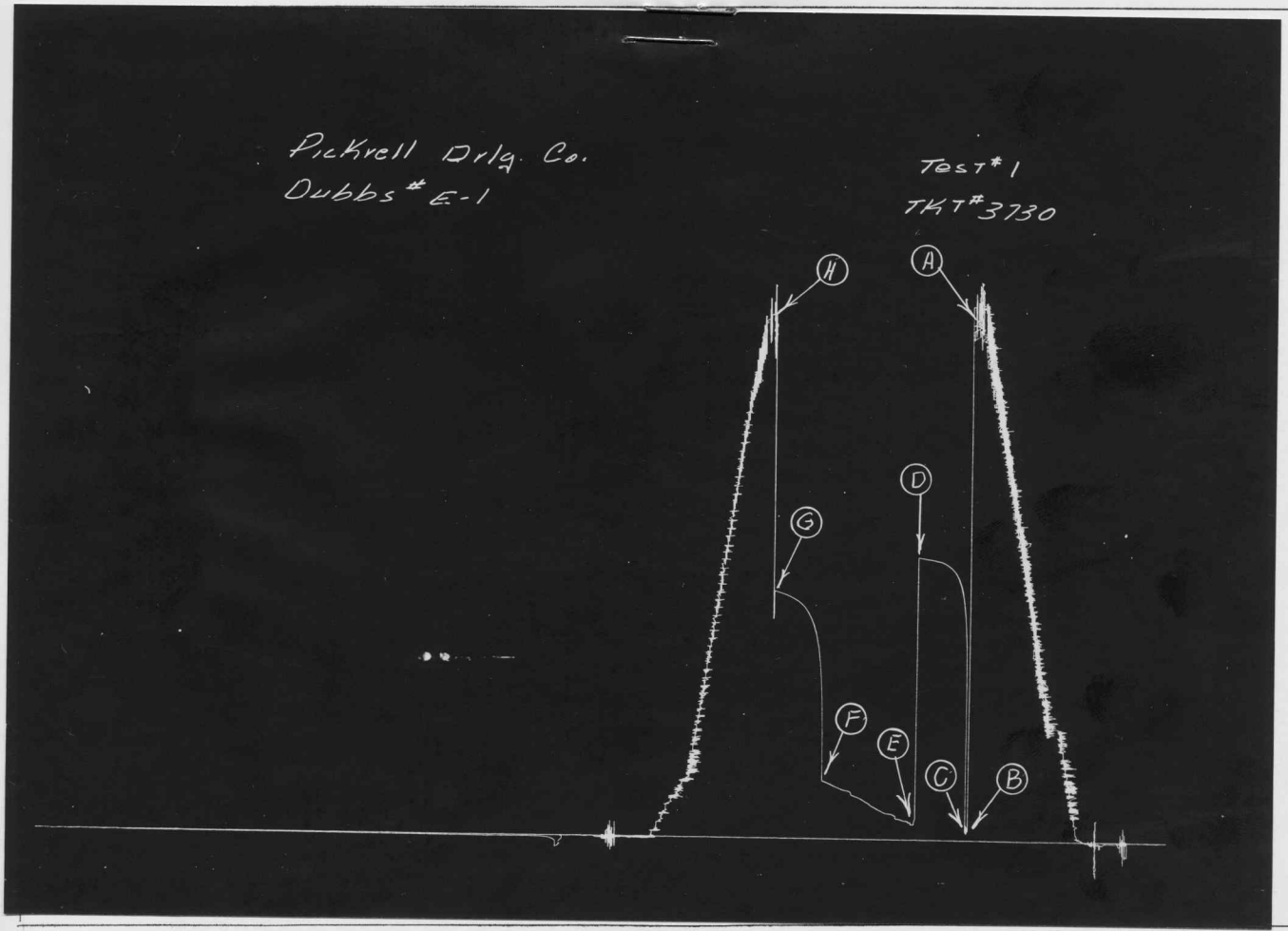
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>11</u> Inc.
of <u>2</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>2</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>34</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>270</u>
P 2 <u>2</u>	<u>38</u>	<u>3</u>	<u>885</u>	<u>5</u>	<u>86</u>	<u>3</u>	<u>786</u>
P 3		<u>6</u>	<u>1079</u>	<u>10</u>	<u>95</u>	<u>6</u>	<u>930</u>
P 4		<u>9</u>	<u>1199</u>	<u>15</u>	<u>114</u>	<u>9</u>	<u>1010</u>
P 5		<u>12</u>	<u>1245</u>	<u>20</u>	<u>129</u>	<u>12</u>	<u>1051</u>
P 6		<u>15</u>	<u>1266</u>	<u>25</u>	<u>149</u>	<u>15</u>	<u>1088</u>
P 7		<u>18</u>	<u>1286</u>	<u>30</u>	<u>172</u>	<u>18</u>	<u>1103</u>
P 8		<u>21</u>	<u>1292</u>	<u>35</u>	<u>194</u>	<u>21</u>	<u>1116</u>
P 9		<u>24</u>	<u>1299</u>	<u>40</u>	<u>213</u>	<u>24</u>	<u>1129</u>
P10		<u>27</u>	<u>1303</u>	<u>45</u>	<u>228</u>	<u>27</u>	<u>1135</u>
P11		<u>30</u>	<u>1305</u>	<u>50</u>	<u>249</u>	<u>30</u>	<u>1141</u>
P12		<u>33</u>	<u>1309</u>	<u>55</u>	<u>265</u>	<u>33</u>	<u>1146</u>
P13				<u>57</u>	<u>270</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Pickrell Drilg. Co.
Dubbs # E-1

TEST # 1
TKT # 3730



This is an actual photograph of recorder chart.

POINT	PRESSURE	
(A) Initial Hydrostatic Mud	2441	PSI
(B) First Initial Flow Pressure	34	PSI
(C) First Final Flow Pressure	38	PSI
(D) Initial Closed-in Pressure	1309	PSI
(E) Second Initial Flow Pressure	71	PSI
(F) Second Final Flow Pressure	270	PSI
(G) Final Closed-in Pressure	1146	PSI
(H) Final Hydrostatic Mud	2422	PSI



Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Date 5-14-64 Company Pickrell Drilling Company Lease & Well No. Dubbs E-1 Location 4524
 Elevation 2522' D.F. Ticket Number 3732
 Date 5-14-64 Sec. 26 Twp. 16S Range 24W County Ness State Kansas
 Test Approved by George E. Link Western Representative Jack Toelkes

Formation Test No. 2 O.K. Misrun Interval Tested From 4521' to 4530' Total Depth 4530'
 Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Packer Depth 4516 Ft. Size 6 3/4" Packer Depth 4521 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 9 Ft. Size 5 1/2" OD

RECORDERS
 Depth 4524 Ft. Clock No. 6892 Depth 4527 Ft. Clock No. 142
 Top Make Ame rada Cap. 4382 No. 1567 Inside Outside Bottom Make Western Cap. 3000# No. 30 Inside Outside
 Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Inside Outside
 Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 6:06P
 Tool Open I.F.P. From 6:08P M to 6:10P M - Hr. 2 Min. From (B) 25 P.S.I. To (C) 25 P.S.I.
 Tool Closed I.C.I.P. From 6:10P M. to 6:40P M. - Hr. 30 Min. (D) 1258 P.S.I.
 Tool Open F.F.P. From 6:40P M. to 8:10P M. 1 Hr. 30 Min. From (E) 58 P.S.I. To (F) 76 P.S.I.
 Tool Closed F.C.I.P. From 8:10P M. to 8:55P M. - Hr. 45 Min. (G) 1178 P.S.I.
 Initial Hydrostatic Pressure (A) 2414 P.S.I. Final Hydrostatic Pressure (H) 2409 P.S.I.

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

BLOW Fair Bottom Choke Size 3/4 in.
 Did Well Flow Yes No Recovery Total Ft. 186' Muddy Salt Water

Reversed Out Yes No Mud Type Starch Viscosity 48 Weight 10. Maximum Temp. 121 °F

EXTRA EQUIPMENT: Dual Packers Safety Joint Jars: Size No Make _____ Ser. No. _____
 Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes

Length Drill Pipe 3630 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D. S. T. Tool 28 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 5-14-64 Test Ticket No. 3732
 Recorder No. 1567 Capacity 4300# Location 4524 Ft.
 Clock No. 6892 Elevation 2522' D.F. Well Temperature 121 °F

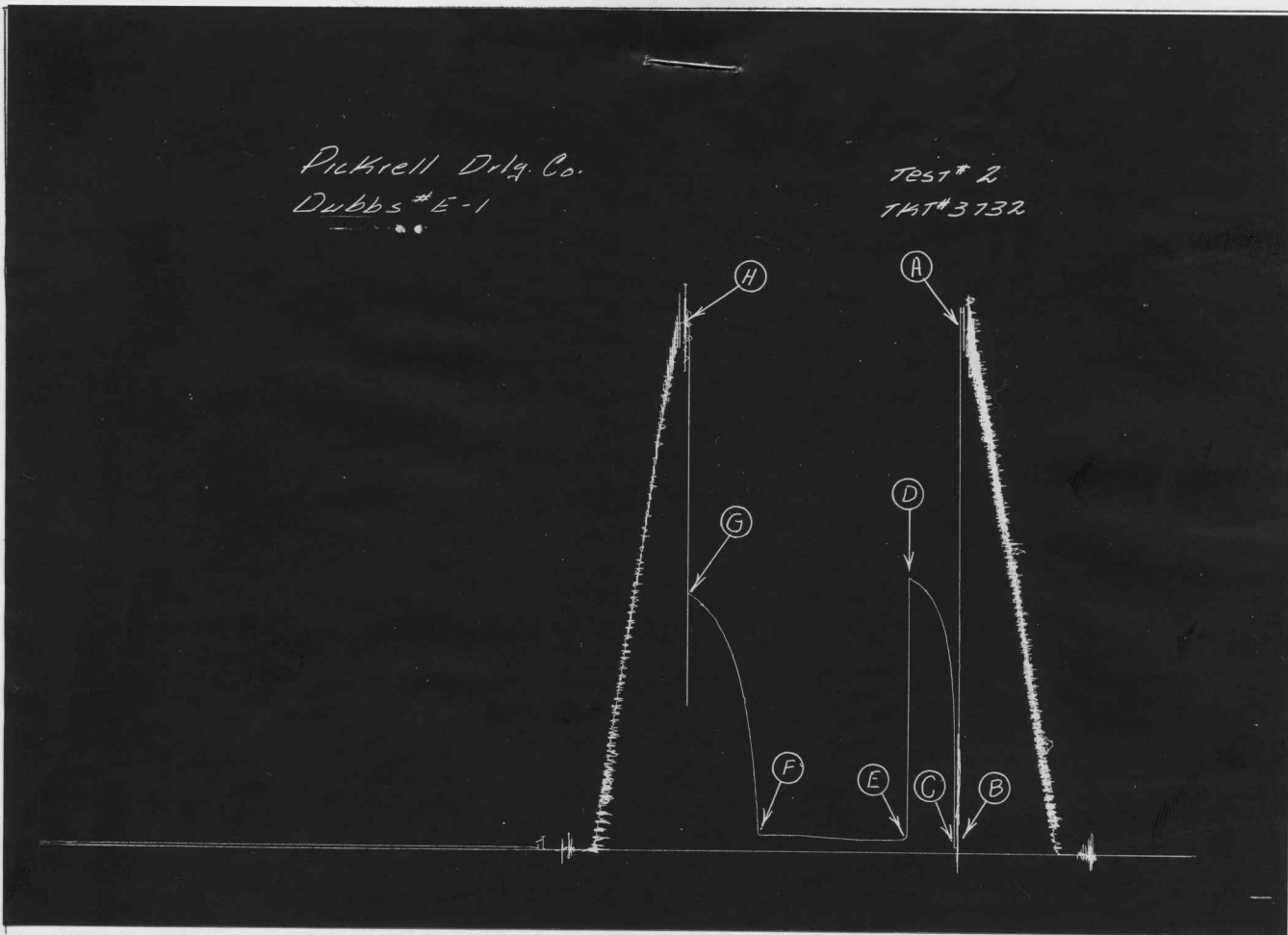
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2414</u> P.S.I.	Opened Tool	<u>6:06 P</u> M	<u>6:06 PM</u>
B First Initial Flow Pressure	<u>25</u> P.S.I.	First Flow Pressure	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure	<u>25</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1258</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>58</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>76</u> P.S.I.			
G Final Closed-in Pressure	<u>1178</u> P.S.I.			
H Final Hydrostatic Mud	<u>2409</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>15</u> Inc.	Breakdown: <u>15</u> Inc.
of <u>2</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>-</u> Min.	final inc. of <u>-</u> Min.	final inc. of <u>-</u> Min.	final inc. of <u>-</u> Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>25</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>76</u>
P 2	<u>25</u>	<u>3</u>	<u>719</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>322</u>
P 3		<u>6</u>	<u>915</u>	<u>10</u>	<u>58</u>	<u>6</u>	<u>491</u>
P 4		<u>9</u>	<u>1023</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>639</u>
P 5		<u>12</u>	<u>1103</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>734</u>
P 6		<u>15</u>	<u>1148</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>831</u>
P 7		<u>18</u>	<u>1187</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>894</u>
P 8		<u>21</u>	<u>1212</u>	<u>35</u>	<u>59</u>	<u>21</u>	<u>948</u>
P 9		<u>24</u>	<u>1232</u>	<u>40</u>	<u>60</u>	<u>24</u>	<u>1002</u>
P10		<u>27</u>	<u>1247</u>	<u>45</u>	<u>61</u>	<u>27</u>	<u>1038</u>
P11		<u>30</u>	<u>1258</u>	<u>50</u>	<u>63</u>	<u>30</u>	<u>1073</u>
P12				<u>55</u>	<u>64</u>	<u>33</u>	<u>1103</u>
P13				<u>60</u>	<u>66</u>	<u>36</u>	<u>1124</u>
P14				<u>65</u>	<u>69</u>	<u>39</u>	<u>1144</u>
P15				<u>70</u>	<u>71</u>	<u>42</u>	<u>1165</u>
P16				<u>75</u>	<u>73</u>	<u>45</u>	<u>1178</u>
P17				<u>80</u>	<u>74</u>		
P18				<u>85</u>	<u>75</u>		
P19				<u>90</u>	<u>76</u>		
P20							

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given. Fresh water content to 100 ft.



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2114 PSI
(B) First Initial Flow Pressure	25 PSI
(C) First Final Flow Pressure	25 PSI
(D) Initial Closed-in Pressure	1258 PSI
(E) Second Initial Flow Pressure	58 PSI
(F) Second Final Flow Pressure	76 PSI
(G) Final Closed-in Pressure	1178 PSI
(H) Final Hydrostatic Mud	2409 PSI



Home Office: Great Bend, Kansas

P. O. Box 793 Gladstone 3-7903

Test Ticket No. 3733

Company Pickrell Drilling Company Lease & Well No. Dubbs E-1 Location 4505 ft.

Elevation 2522' D.F. Ticket Number _____ Well Temperature 3733

Date 5-15-64 Sec. 26 Twp. 16S Range 24W County Ness State Kansas

Test Approved by George E. Link Western Representative Jack Toelkes

Formation Test No. 3 O.K. Misrun _____ Interval Tested From 4470' to 4515' Total Depth 4515'

Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged Yes No _____ Conv. B.T. _____ Damaged Yes No _____

Packer Depth 4465 Ft. Size 6 3/4" Packer Depth 4470 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 45 Ft. Size 5 1/2" OD

RECORDERS Depth 4505 Ft. Clock No. 6892 Depth 4508 Ft. Clock No. 147

Top Make Amerada Cap. 4382 No. 1567 Inside _____ Outside _____ Bottom Make Western Cap. 4000# No. 57 Inside _____ Outside _____

Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____

Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 9:52P M _____

Tool Open I.F.P. From 9:54P M to 9:56P M - Hr. 2 Min. From (B) 64 P.S.I. To (C) 64 P.S.I.

Tool Closed I.C.I.P. From 9:56P M. to 10:26P M. - Hr. 30 Min. (D) 1275 P.S.I.

Tool Open F.F.P. From 10:26P M. to 12:26A M. 2 Hr. - Min. From (E) 103 P.S.I. To (F) 402 P.S.I.

Tool Closed F.C.I.P. From 12:26A M. to 1:26A M. 1 Hr. - Min. (G) 1081 P.S.I.

Initial Hydrostatic Pressure (A) 2442 P.S.I. Final Hydrostatic Pressure (H) _____ P.S.I.

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

INFORMATION _____ M. _____

_____ M. 42 Gr. @ 75° F

_____ M. _____

BLOW Strong Bottom Choke Size _____ in.

Did Well Flow Yes No _____ Recovery Total Ft. 135' G.I.P. 610' Cln. Gsy. Oil - 496' Mdy. Gsy. Oil

Reversed Out Yes No _____ Mud Type Starch Viscosity 48 Weight 10. Maximum Temp. 112° F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size No Make _____ Ser. No. _____

Type Circ. Sub. Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes

Length Drill Pipe 3577 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D. S. T. Tool 68 ft.

Remarks _____

P17 _____

P18 _____

P19 _____

P20 _____

WESTERN TESTING CO., INC.
Pressure Data

Date 5-15-64 Test Ticket No. 3733
 Recorder No. 1567 Capacity 4300# Location 4505 Ft.
 Clock No. 6892 Elevation 2522' D.F. Well Temperature 112

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2442</u>	P.S.I.	Opened Tool	<u>9:52 P</u>	<u>9:52 PM</u>
B First Initial Flow Pressure	<u>64</u>	P.S.I.	First Flow Pressure	<u>2</u> Mins.	<u>2</u> Mins.
C First Final Flow Pressure	<u>64</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1275</u>	P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>103</u>	P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>402</u>	P.S.I.			
G Final Closed-in Pressure	<u>1081</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2413</u>	P.S.I.			

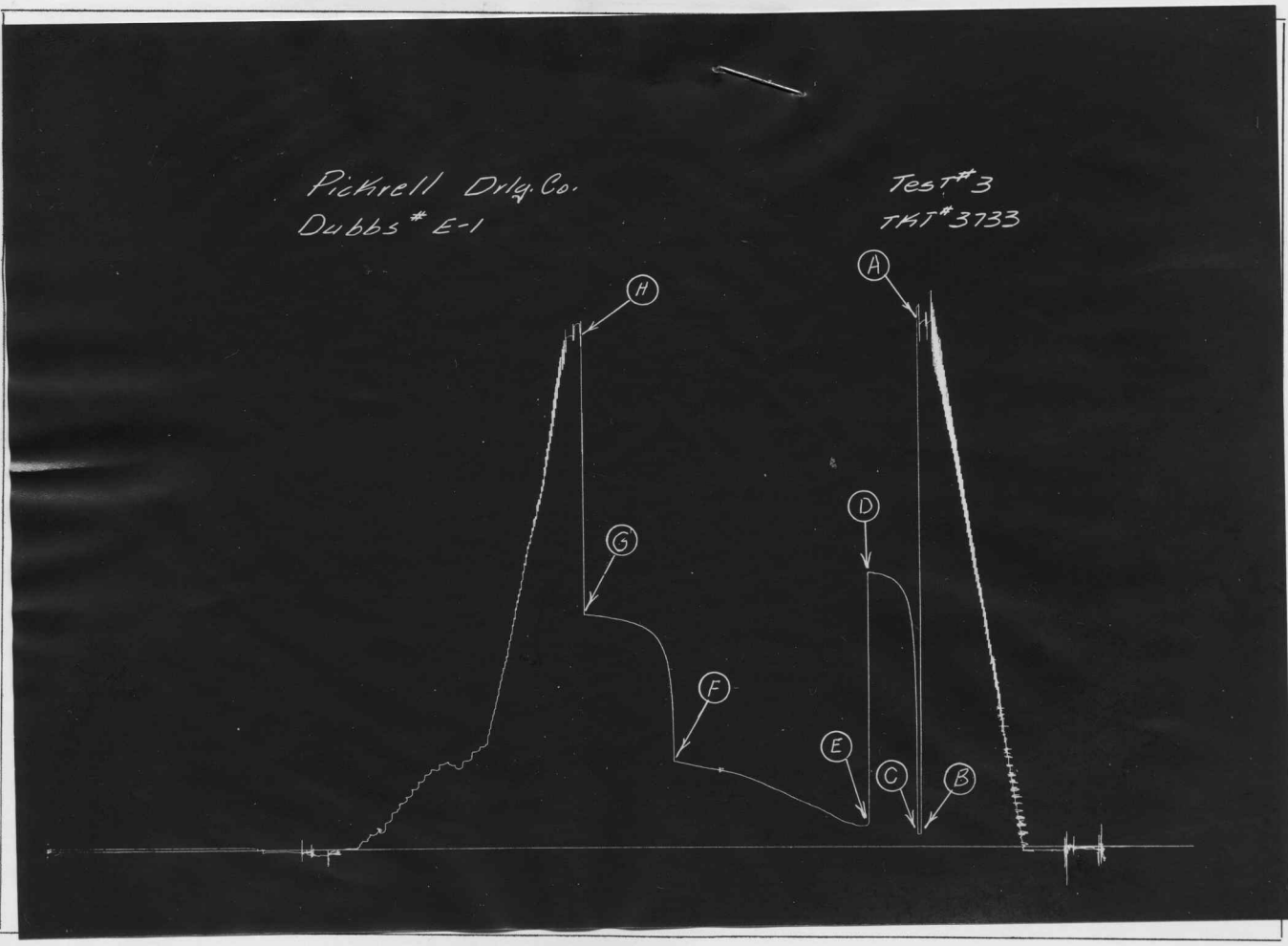
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>24</u> Inc.	Breakdown: <u>18</u> Inc.
of <u>2</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>-</u> Min.	final inc. of <u>-</u> Min.	final inc. of <u>-</u> Min.	final inc. of <u>-</u> Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>0</u>	<u>64</u>	<u>0</u>	<u>64</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>402</u>
P 2	<u>2</u>	<u>64</u>	<u>3</u>	<u>853</u>	<u>5</u>	<u>105</u>	<u>3</u>	<u>786</u>
P 3			<u>6</u>	<u>1047</u>	<u>10</u>	<u>114</u>	<u>6</u>	<u>894</u>
P 4			<u>9</u>	<u>1150</u>	<u>15</u>	<u>123</u>	<u>9</u>	<u>948</u>
P 5			<u>12</u>	<u>1208</u>	<u>20</u>	<u>142</u>	<u>12</u>	<u>984</u>
P 6			<u>15</u>	<u>1234</u>	<u>25</u>	<u>162</u>	<u>15</u>	<u>1002</u>
P 7			<u>18</u>	<u>1249</u>	<u>30</u>	<u>183</u>	<u>18</u>	<u>1021</u>
P 8			<u>21</u>	<u>1260</u>	<u>35</u>	<u>200</u>	<u>21</u>	<u>1032</u>
P 9			<u>24</u>	<u>1266</u>	<u>40</u>	<u>216</u>	<u>24</u>	<u>1040</u>
P 10			<u>27</u>	<u>1271</u>	<u>45</u>	<u>233</u>	<u>27</u>	<u>1047</u>
P 11			<u>30</u>	<u>1275</u>	<u>50</u>	<u>250</u>	<u>30</u>	<u>1053</u>
P 12					<u>55</u>	<u>270</u>	<u>33</u>	<u>1060</u>
P 13					<u>60</u>	<u>285</u>	<u>36</u>	<u>1064</u>
P 14					<u>65</u>	<u>304</u>	<u>39</u>	<u>1068</u>
P 15					<u>70</u>	<u>317</u>	<u>42</u>	<u>1072</u>
P 16					<u>75</u>	<u>335</u>	<u>45</u>	<u>1075</u>
P 17					<u>80</u>	<u>345</u>	<u>48</u>	<u>1077</u>
P 18					<u>85</u>	<u>354</u>	<u>51</u>	<u>1080</u>
P 19					<u>90</u>	<u>363</u>	<u>54</u>	<u>1081</u>
P 20					<u>95</u>	<u>369</u>		
					<u>100</u>	<u>374</u>		
					<u>105</u>	<u>382</u>		
					<u>110</u>	<u>391</u>		
					<u>115</u>	<u>400</u>		
					<u>120</u>	<u>402</u>		

Pickrell Drly. Co.
Dubbs # E-1

Test # 3
TKT # 3733



This is an actual photograph of recorder chart.

POINT	PRESSURE	PSI
(A) Initial Hydrostatic Mud	2442	PSI
(B) First Initial Flow Pressure	64	PSI
(C) First Final Flow Pressure	64	PSI
(D) Initial Closed-in Pressure	1275	PSI
(E) Second Initial Flow Pressure	103	PSI
(F) Second Final Flow Pressure	402	PSI
(G) Final Closed-in Pressure	1081	PSI
(H) Final Hydrostatic Mud	2413	PSI