



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Voth #2
Elevation Not Available Ticket Number 4046
Date June 10, 1964 Sec. 34 Twp. 29 Range 6W County Kingman State Kansas
Test Approved by George E. Link Western Representative George Tew

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3284' to 3300 Total Depth 3300'
Size Main Hole 7 5/8 Rat Hole None Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No _____
Packer Depth 3284 Ft. Size 6 3/4 Packer Depth 3279 Ft. Size 6 3/4
Straddle _____ Yes _____ No _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No _____
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 16 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>3293</u> Ft.	Clock No. <u>6861</u>	Depth <u>3296</u> Ft.	Clock No. <u>135</u>
	Top Make <u>Amarada</u> Cap. <u>4200</u> No. <u>1558</u>	Inside _____ Outside _____	Bottom Make <u>Western</u> Cap. <u>4000</u> No. <u>60</u>	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 12:25 A _____ M
Tool Open I.F.P. From 12:27 M to 12:32 M Hr. 5 Min. From (B) 44 P.S.I. To (C) 105 P.S.I.
Tool Closed I.C.I.P. From 12:32 M. to 1:02A M. Hr. 30 Min. (D) 1396 P.S.I.
Tool Open F.F.P. From 1:02A M. to 3:02A M. 2 Hr. _____ Min. From (E) 153 P.S.I. To (F) 809 P.S.I.
Tool Closed F.C.I.P. From 3:02A M. to 3:32A M. Hr. 30 Min. (G) 1369 P.S.I.
Initial Hydrostatic Pressure (A) 1759 P.S.I. Final Hydrostatic Pressure (H) 1713 P.S.I.

SURFACE	Size Choke <u>1/2</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____

BLOW Good ~~1/2~~ blow throughout test. Bottom Choke Size 3/4 in.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1700' total - 150' Gas in pipe 25' Heavy oil and gas cut mud
310' Oil and gas cut salty water 1365 Gas cut salty water Mud
Reversed Out ☒ Yes _____ No _____ Mud Type starch Viscosity 34 Weight 9.6 Maximum Temp. 123 °F
EXTRA EQUIPMENT: Dual Packers _____ Safety Joint no Jars: Size _____ Make _____ Ser. No. _____
Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes
Length Drill Pipe 2304 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 960 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 36 ft.

Remarks

WESTERN TESTING CO., INC. Pressure Data

Date June 11, 1964 Test Ticket No. 3840
Recorder No. 1559 Capacity 4200 Location 4140 Ft.
Clock No. 5665 Elevation 1516 Derrick Floor Well Temperature 139 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2213</u> P.S.I.	Opened Tool	<u>10:10 P</u> M	
B First Initial Flow Pressure	<u>73</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>73</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1403</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>173</u> P.S.I.			
G Final Closed-in Pressure	<u>1248</u> P.S.I.			
H Final Hydrostatic Mud	<u>2175</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>17</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a 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>73</u>	<u>0</u>	<u>73</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>173</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>227</u>	<u>5</u>	<u>100</u>	<u>3</u>	<u>479</u>
P 3		<u>6</u>	<u>474</u>	<u>10</u>	<u>108</u>	<u>6</u>	<u>699</u>
P 4		<u>9</u>	<u>722</u>	<u>15</u>	<u>117</u>	<u>9</u>	<u>859</u>
P 5		<u>12</u>	<u>985</u>	<u>20</u>	<u>125</u>	<u>12</u>	<u>970</u>
P 6		<u>15</u>	<u>1137</u>	<u>25</u>	<u>133</u>	<u>15</u>	<u>1052</u>
P 7		<u>18</u>	<u>1238</u>	<u>30</u>	<u>137</u>	<u>18</u>	<u>1114</u>
P 8		<u>21</u>	<u>1300</u>	<u>35</u>	<u>141</u>	<u>21</u>	<u>1163</u>
P 9		<u>24</u>	<u>1340</u>	<u>40</u>	<u>145</u>	<u>24</u>	<u>1196</u>
P 10		<u>27</u>	<u>1372</u>	<u>45</u>	<u>148</u>	<u>27</u>	<u>1231</u>
P 11		<u>30</u>	<u>1403</u>	<u>50</u>	<u>152</u>	<u>30</u>	<u>1248</u>
P 12				<u>55</u>	<u>155</u>		
P 13				<u>60</u>	<u>158</u>		
P 14				<u>65</u>	<u>160</u>		
P 15				<u>70</u>	<u>163</u>		
P 16				<u>75</u>	<u>167</u>		
P 17				<u>80</u>	<u>170</u>		
P 18				<u>85</u>	<u>173</u>		
P 19							
P 20							

WESTERN TESTING CO., INC.

Pressure Data

Date June 10, 1964 Test Ticket No. 4046
 Recorder No. 1558 Capacity 4200 Location 3293 Ft.
 Clock No. 6861 Elevation Not Available Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1759</u> P.S.I.	Opened Tool	<u>12:25A</u>	<u>M</u>
B First Initial Flow Pressure	<u>44</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>105</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>34</u> Mins.
D Initial Closed-in Pressure	<u>1396</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>153</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>34</u> Mins.
F Second Final Flow Pressure	<u>809</u> P.S.I.			
G Final Closed-in Pressure	<u>1369</u> P.S.I.			
H Final Hydrostatic Mud	<u>1713</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>1</u> Min.	Second Flow Pressure Breakdown: <u>24</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>1</u> Min.
--	---	--	---

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>44</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>153</u>	<u>0</u>	<u>809</u>
P 2 <u>5</u>	<u>105</u>	<u>3</u>	<u>947</u>	<u>5</u>	<u>185</u>	<u>3</u>	<u>1313</u>
P 3		<u>6</u>	<u>1353</u>	<u>10</u>	<u>248</u>	<u>6</u>	<u>1342</u>
P 4		<u>9</u>	<u>1376</u>	<u>15</u>	<u>303</u>	<u>9</u>	<u>1353</u>
P 5		<u>12</u>	<u>1386</u>	<u>20</u>	<u>331</u>	<u>12</u>	<u>1355</u>
P 6		<u>15</u>	<u>1390</u>	<u>25</u>	<u>362</u>	<u>15</u>	<u>1359</u>
P 7		<u>18</u>	<u>1392</u>	<u>30</u>	<u>392</u>	<u>18</u>	<u>1363</u>
P 8		<u>21</u>	<u>1394</u>	<u>35</u>	<u>419</u>	<u>21</u>	<u>1365</u>
P 9		<u>24</u>	<u>1396</u>	<u>40</u>	<u>447</u>	<u>24</u>	<u>1367</u>
P 10		<u>27</u>	<u>1396</u>	<u>45</u>	<u>474</u>	<u>27</u>	<u>1369</u>
P 11		<u>30</u>	<u>1396</u>	<u>50</u>	<u>504</u>	<u>30</u>	<u>1369</u>
P 12		<u>33</u>	<u>1396</u>	<u>55</u>	<u>527</u>	<u>33</u>	<u>1369</u>
P 13		<u>34</u>	<u>1396</u>	<u>60</u>	<u>547</u>	<u>34</u>	<u>1369</u>
P 14				<u>65</u>	<u>574</u>		
P 15				<u>70</u>	<u>597</u>		
P 16				<u>75</u>	<u>620</u>		
P 17				<u>80</u>	<u>641</u>		
P 18				<u>85</u>	<u>662</u>		
P 19				<u>90</u>	<u>685</u>		
P 20				<u>95</u>	<u>705</u>		
				<u>100</u>	<u>726</u>		
				<u>105</u>	<u>749</u>		
				<u>110</u>	<u>770</u>		
				<u>115</u>	<u>787</u>		
				<u>120</u>	<u>809</u>		



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Voth #2
Elevation Not Available Ticket Number 4047
Date June 12, 1964 Sec. 34 Twp. 29 Range 6w County Kingman State Kansas
Test Approved by George E. Link Western Representative George Tew

Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 3710 to 3723 Total Depth 3723
Size Main Hole 7 5/8 Rat Hole None Conv. ☒ B.T. _____ Damaged _____ Yes _____ No _____ Conv. ☒ B.T. _____ Damaged _____ Yes _____ No _____
Packer Depth 3710 Ft. Size 6 3/4 Packer Depth 3705 Ft. Size 6 3/4
Straddle _____ Yes ☒ No _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No _____
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 13 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>3712</u> Ft.	Clock No. <u>6861</u>	Depth <u>3717</u> Ft.	Clock No. <u>135</u>
	Top Make <u>Amarada</u> Cap. <u>4200</u> No. <u>1558</u>	Inside _____ Outside _____	Bottom Make <u>Western</u> Cap. <u>4000</u> No. <u>60</u>	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 10:30 A M
Tool Open I.F.P. From 10:33 A M to 10:36 A M Hr. 3 Min. 30 From (B) 52 P.S.I. To (C) 52 P.S.I.
Tool Closed I.C.I.P. From 10:36 A M. to 11:06 M. Hr. 30 Min. (D) 1497 P.S.I.
Tool Open F.F.P. From 11:06 A M. to 12:36 P M. 1 Hr. 30 Min. From (E) 86 P.S.I. To (F) 443 P.S.I.
Tool Closed F.C.I.P. From 12:36 P M. to 1:06 P M. Hr. 30 Min. (G) 1463 P.S.I.
Initial Hydrostatic Pressure (A) 1974 P.S.I. Final Hydrostatic Pressure (H) 1970 P.S.I.

SURFACE	Size Choke <u>2</u> In.	Max. Press. P.S.I.	Time	Description of Flow
INFORMATION	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____
	_____	_____	_____ M.	_____

BLOW Good throughout test Bottom Choke Size 3/4 in.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 900' total fluid 280' Gas in pipe, 30' Oil and gas cut
mud 870' oil and gas cut salt water Mud _____

Reversed Out _____ Yes ☒ No _____ Mud Type starch Viscosity 44 Weight 9.6 Maximum Temp. 133 °F

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

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

Length Drill Pipe 2730 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 960 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D. S. T. Tool 33 ft.

Remarks _____

WESTERN TESTING CO., INC. Pressure Data

Date June 12, 1964 Test Ticket No. 4047
Recorder No. 1558 Capacity 4200 Location 3714 Ft.
Clock No. 6861 Elevation Not Available Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1974</u> P.S.I.	Opened Tool	<u>10:30 A.M.</u>	
B First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>3</u> Mins.	<u>3</u> Mins.
C First Final Flow Pressure	<u>52</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1497</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>95</u> Mins.
E Second Initial Flow Pressure	<u>86</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>443</u> P.S.I.			
G Final Closed-in Pressure	<u>1463</u> P.S.I.			
H Final Hydrostatic Mud	<u>1970</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>19</u> Inc.	Breakdown: <u>10</u> Inc.
of <u>3</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>52</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>86</u>	<u>0</u>	<u>443</u>
P 2 <u>3</u>	<u>52</u>	<u>3</u>	<u>691</u>	<u>5</u>	<u>92</u>	<u>3</u>	<u>1365</u>
P 3		<u>6</u>	<u>1449</u>	<u>10</u>	<u>126</u>	<u>6</u>	<u>1430</u>
P 4		<u>9</u>	<u>1479</u>	<u>15</u>	<u>162</u>	<u>9</u>	<u>1443</u>
P 5		<u>12</u>	<u>1487</u>	<u>20</u>	<u>196</u>	<u>12</u>	<u>1447</u>
P 6		<u>15</u>	<u>1491</u>	<u>25</u>	<u>229</u>	<u>15</u>	<u>1453</u>
P 7		<u>18</u>	<u>1493</u>	<u>30</u>	<u>255</u>	<u>18</u>	<u>1458</u>
P 8		<u>21</u>	<u>1495</u>	<u>35</u>	<u>282</u>	<u>21</u>	<u>1460</u>
P 9		<u>24</u>	<u>1496</u>	<u>40</u>	<u>299</u>	<u>24</u>	<u>1461</u>
P 10		<u>27</u>	<u>1497</u>	<u>45</u>	<u>314</u>	<u>27</u>	<u>1462</u>
P 11		<u>30</u>	<u>1497</u>	<u>50</u>	<u>329</u>	<u>30</u>	<u>1463</u>
P 12		<u>33</u>	<u>1497</u>	<u>55</u>	<u>343</u>		
				<u>60</u>	<u>360</u>		
				<u>65</u>	<u>371</u>		
				<u>70</u>	<u>386</u>		
				<u>75</u>	<u>396</u>		
				<u>80</u>	<u>411</u>		
				<u>85</u>	<u>421</u>		
				<u>90</u>	<u>432</u>		
				<u>95</u>	<u>443</u>		
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Voth #2
Elevation 1516 D. F. Ticket Number 3840
Date June 14, 1964 Sec. 24 Twp. 27 Range 6W County Kingman State Kansas
Test Approved by George E. Link Western Representative Guy M. Knipe

Formation Test No. 3 O.K. ☒ Misrun _____ Interval Tested From 4129' to 4148' Total Depth 4148'
Size Main Hole 7 5/8 Rat Hole _____ Conv. ☒ B.T. ☒ Damaged Yes ☒ No ☒ Conv. ☒ B.T. ☒ Damaged Yes ☒ No ☒
Packer Depth 4126 Ft. Size 6 3/4 Packer Depth 4129 Ft. Size 6 3/4
Straddle Yes ☒ No _____ Conv. _____ B.T. _____ Damaged Yes _____ No _____
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 19' Ft. Size 5 1/2 O. D.

RECORDERS Depth 4140 Ft. Clock No. 5665 Depth 4143 Ft. Clock No. 150
Top Make Amarada Cap. 4200 No. 1559 Inside _____ Outside _____ Bottom Make Western Cap. 4000 No. 59 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 10:10 P M
Tool Open I.F.P. From 10:11P M to 10:16P M Hr. 5 Min. From (B) 73 P.S.I. To (C) 73 P.S.I.
Tool Closed I.C.I.P. From 10:16 P M. to 10:46P M. Hr. 30 Min. (D) 1403 P.S.I.
Tool Open F.F.P. From 10:46P M. to 12:16A M. 1 Hr. 30 Min. From (E) 98 P.S.I. To (F) 173 P.S.I.
Tool Closed F.C.I.P. From 12:16A M. to 12:46A M. Hr. 30 Min. (G) 1248 P.S.I.
Initial Hydrostatic Pressure (A) 2213 P.S.I. Final Hydrostatic Pressure (H) 2175 P.S.I.

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

BLOW Strong gas in 7 minutes too small to guage. Bottom Choke Size 3/4 in.

Did Well Flow ☒ Yes _____ No _____ Recovery Total Ft. (511' total fluid) 77' gas cut mud, 124' heavily oil and gas cut mud, 186' oil and gas cut salt water, 124' salt water Mud _____

Reversed Out _____ Yes _____ No _____ Mud Type starch Viscosity 48 Weight 9.7 Maximum Temp. 139 °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 81503510 in. I.D. Drill Pipe 3.8 in. Length Weight Pipe 599 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D. S. T. Tool 39 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date June 11, 1964 Test Ticket No. 3840
 Recorder No. 1559 Capacity 4200 Location 4140 Ft.
 Clock No. 5665 Elevation 1516 Derrick Floor Well Temperature 139 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2213</u> P.S.I.	Opened Tool	<u>10:10 P</u> M	
B First Initial Flow Pressure	<u>73</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>73</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1403</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>173</u> P.S.I.			
G Final Closed-in Pressure	<u>1248</u> P.S.I.			
H Final Hydrostatic Mud	<u>2175</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>17</u> Inc.	Breakdown: <u>10</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>73</u>	<u>0</u>	<u>73</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>173</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>227</u>	<u>5</u>	<u>100</u>	<u>3</u>	<u>479</u>
P 3		<u>6</u>	<u>474</u>	<u>10</u>	<u>108</u>	<u>6</u>	<u>699</u>
P 4		<u>9</u>	<u>722</u>	<u>15</u>	<u>117</u>	<u>9</u>	<u>859</u>
P 5		<u>12</u>	<u>985</u>	<u>20</u>	<u>125</u>	<u>12</u>	<u>970</u>
P 6		<u>15</u>	<u>1137</u>	<u>25</u>	<u>133</u>	<u>15</u>	<u>1052</u>
P 7		<u>18</u>	<u>1238</u>	<u>30</u>	<u>137</u>	<u>18</u>	<u>1114</u>
P 8		<u>21</u>	<u>1300</u>	<u>35</u>	<u>141</u>	<u>21</u>	<u>1163</u>
P 9		<u>24</u>	<u>1340</u>	<u>40</u>	<u>145</u>	<u>24</u>	<u>1196</u>
P 10		<u>27</u>	<u>1372</u>	<u>45</u>	<u>148</u>	<u>27</u>	<u>1231</u>
P 11		<u>30</u>	<u>1403</u>	<u>50</u>	<u>152</u>	<u>30</u>	<u>1248</u>
P 12				<u>55</u>	<u>155</u>		
P 13				<u>60</u>	<u>158</u>		
P 14				<u>65</u>	<u>160</u>		
P 15				<u>70</u>	<u>163</u>		
P 16				<u>75</u>	<u>167</u>		
P 17				<u>80</u>	<u>170</u>		
P 18				<u>85</u>	<u>173</u>		
P 19							
P 20							



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Bickrell Drilling Company Lease & Well No. Voth #2
Elevation 1516 D. F. Ticket Number 3841
Date June 18, 1964 Sec. 24 Twp. 29 Range 6W County Kingman State Kansas
Test Approved by George E. Link Western Representative Guy M. Knipe

Formation Test No. 4 O.K. ☒ Misrun _____ Interval Tested From 4480' to 4490' Total Depth 4490'
Size Main Hole 7 5/8 Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No _____
Packer Depth 4477 Ft. Size 6 3/4 Packer Depth 4480 Ft. Size 6 3/4
Straddle _____ Yes ☒ No _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No _____
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 10' Ft. Size 5 1/2 O. D.

RECORDERS Depth 4482 Ft. Clock No. 5665 Depth 4485 Ft. Clock No. 150
Top Make Amarada Cap. 4200 No. 1559 Inside _____ Outside _____ Bottom Make Western Cap. 4000 No. 59 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 8:16 A _____ M
Tool Open I.F.P. From 8:17A M to 8:22A M Hr. 5 Min. From (B) 31 P.S.I. To (C) 27 P.S.I.
Tool Closed I.C.I.P. From 8:22 A.M. to 8:52 M. Hr. 30 Min. (D) 43 P.S.I.
Tool Open F.F.P. From 8:52 A M. to 9:52A M. 1 Hr. _____ Min. From (E) 30 P.S.I. To (F) 42 P.S.I.
Tool Closed F.C.I.P. From 9:52 A M. to 10:22 A M. Hr. 30 Min. (G) 42 P.S.I.
Initial Hydrostatic Pressure (A) 2316 P.S.I. Final Hydrostatic Pressure (H) 2301 P.S.I.

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

BLOW Weak blow for 5 minutes Flushed tool after 30 minutes = few bubbles Bottom Choke Size 3/4 in.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 10' Drilling mud

Reversed Out _____ Yes ☒ No _____ Mud Type starch Viscosity 45 Weight 10. Maximum Temp. 131 °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 3861 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 599 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 30' ft.

Remarks _____



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Voth #2
Elevation 1516 D. F. Ticket Number 3842
Date June 18, 1964 Sec. 24 Twp. 29 Range 6W County Kingman State Kansas
Test Approved by George E. Link Western Representative Guy M. Knipe

Formation Test No. 5 O.K. ☒ Misrun _____ Interval Tested From 4482 to 4495 Total Depth 4495
Size Main Hole 7 5/8 Rat Hole _____ Conv. ☒ B.T. _____ Damaged Yes ☒ No _____ Conv. _____ B.T. ☒ Damaged Yes ☒ No _____
Packer Depth 4479 Ft. Size 6 3/4 Packer Depth 4482 Ft. Size 6 3/4
Straddle _____ Yes ☒ No _____ Conv. _____ B.T. _____ Damaged Yes _____ No _____
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length _____ Ft. Size _____

RECORDERS Depth 4487 Ft. Clock No. 5665 Depth 4490 Ft. Clock No. 150
Top Make Amarada Cap. 4200 No. 1559 Inside _____ Outside _____ Bottom Make Western Cap. 4000 No. 59 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 9:44 P M
Tool Open I.F.P. From 9:45 P M to 9:50 P M Hr. 5 Min. From (B) 8 P.S.I. To (C) 8 P.S.I.
Tool Closed I.C.I.P. From 9:50 P M. to 10:20 P M. Hr. 30 Min. (D) 43 P.S.I.
Tool Open F.F.P. From 10:20 P M. to 11:05 P M. Hr. 45 Min. From (E) 10 P.S.I. To (F) 18 P.S.I.
Tool Closed F.C.I.P. From 11:05 P M. to 11:35 P M. Hr. 30 Min. (G) 18 P.S.I.
Initial Hydrostatic Pressure (A) 2354 P.S.I. Final Hydrostatic Pressure (H) 2337 P.S.I.

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

BLOW Weak for 5 minutes - flushed after 20 minutes, few bubbles Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No _____ Recovery Total Ft. 6' drilling mud

Reversed Out Yes ☒ No _____ Mud Type starch Viscosity 53 Weight 9.7 Maximum Temp. 133 °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 3863 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 599 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 33 ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date June 18, 1964 Test Ticket No. 3842
 Recorder No. 1559 Capacity 4200 Location 4487 Ft.
 Clock No. 5665 Elevation 1516 Derrick Floor Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2354</u> P.S.I.	Opened Tool	<u>9:45</u> M	<u>9:45</u>
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>8</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>43</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>10</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>18</u> P.S.I.			
G Final Closed-in Pressure	<u>18</u> P.S.I.			
H Final Hydrostatic Mud	<u>2337</u> P.S.I.			

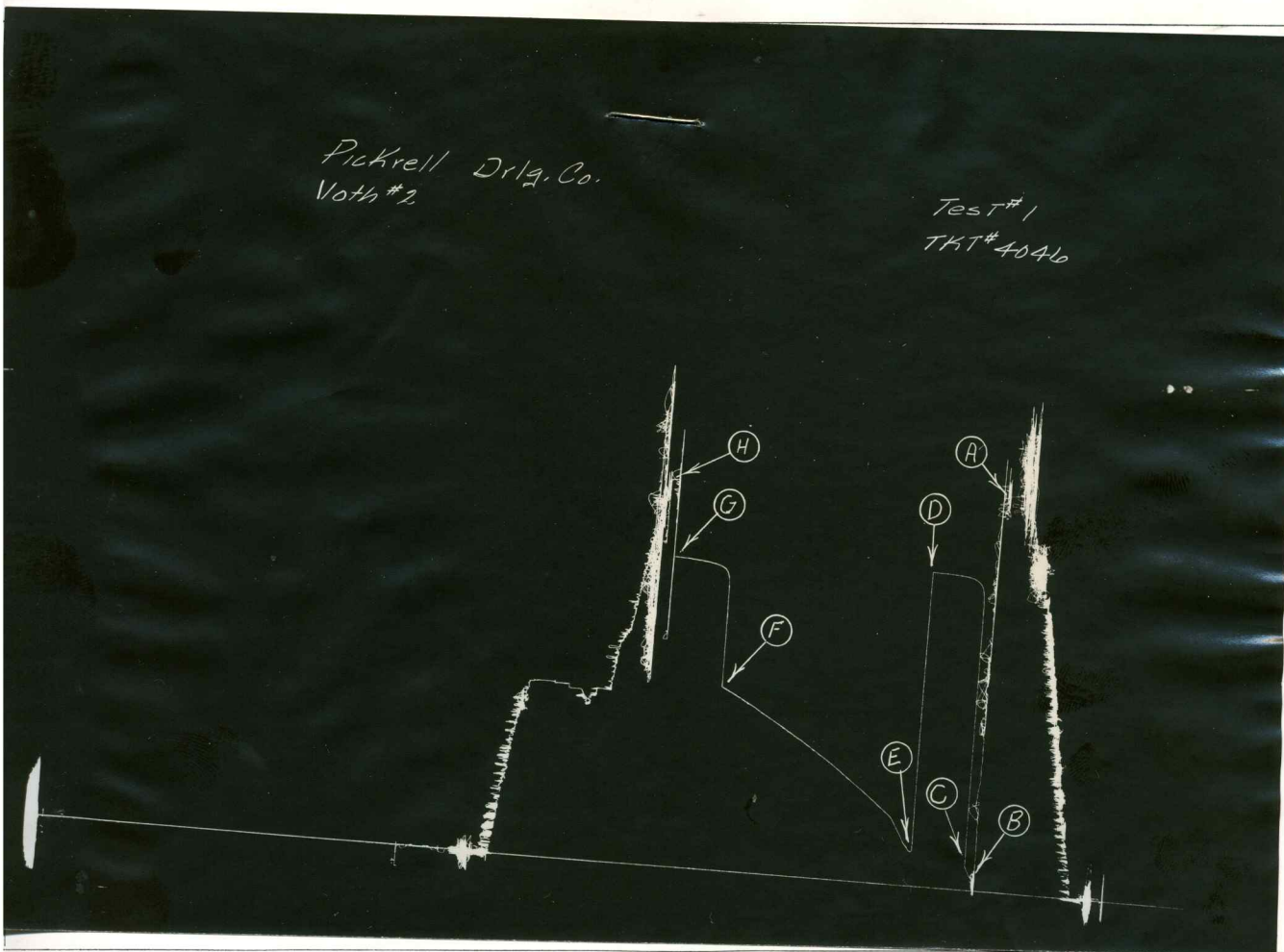
PRESSURE BREAKDOWN

First Flow Press. Breakdown: <u>1</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>11</u> Inc. of <u>5</u> mins. and a final inc. of <u>3</u> Min.	Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.
---	--	--	--

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>8</u>	<u>0</u>	<u>8</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>18</u>
P 2 <u>3</u>	<u>8</u>	<u>3</u>	<u>9</u>	<u>5</u>	<u>10</u>	<u>3</u>	<u>18</u>
P 3 _____		<u>6</u>	<u>12</u>	<u>10</u>	<u>10</u>	<u>6</u>	<u>18</u>
P 4 _____		<u>9</u>	<u>15</u>	<u>15</u>	<u>10</u>	<u>9</u>	<u>18</u>
P 5 _____		<u>12</u>	<u>19</u>	<u>20</u>	<u>10</u>	<u>12</u>	<u>18</u>
P 6 _____		<u>15</u>	<u>22</u>	<u>25</u>	<u>18</u>	<u>15</u>	<u>18</u>
P 7 _____		<u>18</u>	<u>26</u>	<u>30</u>	<u>18</u>	<u>18</u>	<u>18</u>
P 8 _____		<u>21</u>	<u>30</u>	<u>35</u>	<u>18</u>	<u>21</u>	<u>18</u>
P 9 _____		<u>24</u>	<u>34</u>	<u>40</u>	<u>18</u>	<u>24</u>	<u>18</u>
P10 _____		<u>27</u>	<u>38</u>	<u>45</u>	<u>18</u>	<u>27</u>	<u>18</u>
P11 _____		<u>30</u>	<u>43</u>			<u>29</u>	<u>18</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Pickrell Drilling Co.
Voth #2

Test #1
TKT# 4046



This is an actual photograph of recorder chart.

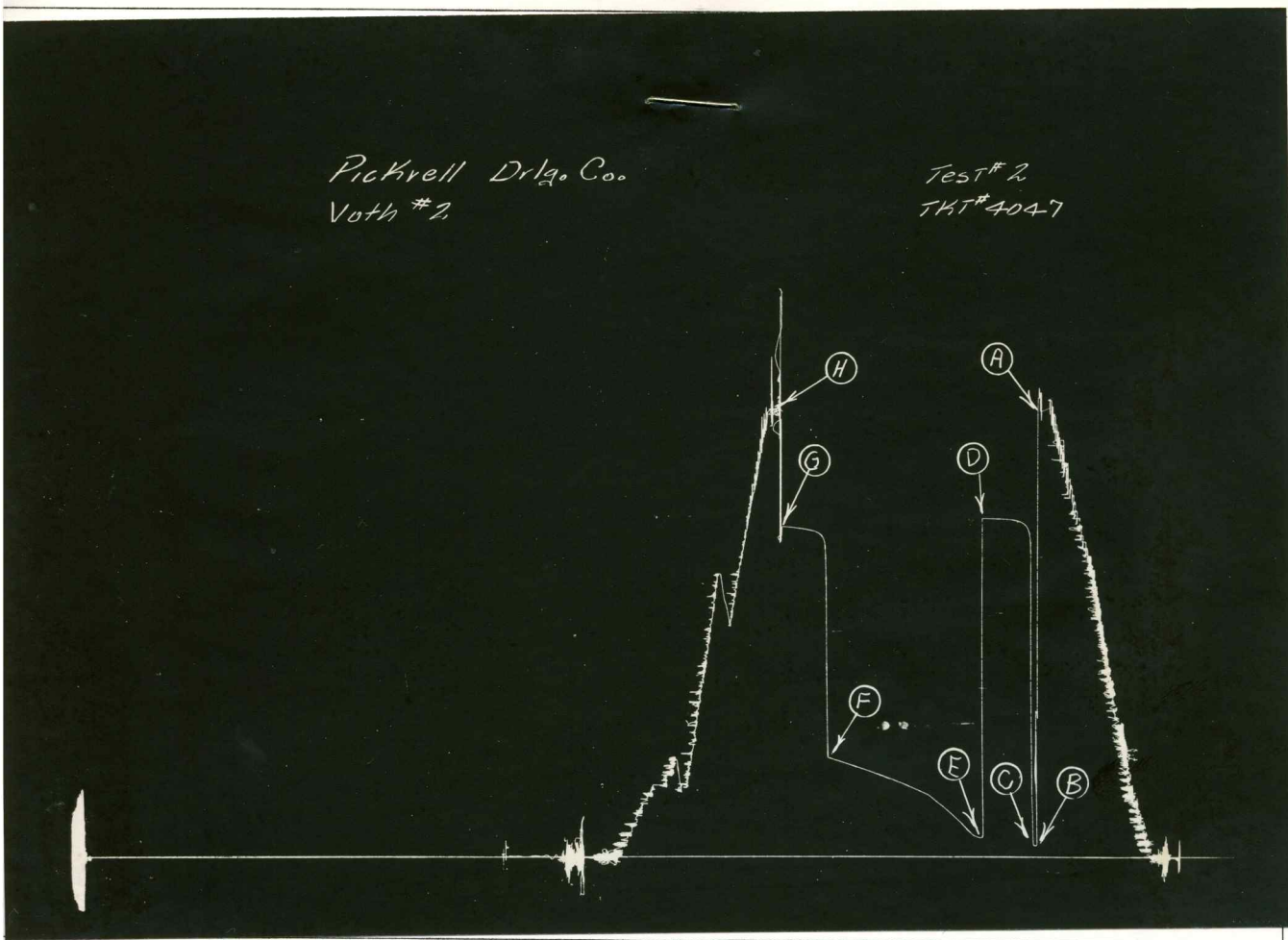
POINT

PRESSURE

(A) Initial Hydrostatic Mud	1759	PSI
(B) First Initial Flow Pressure	44	PSI
(C) First Final Flow Pressure	105	PSI
(D) Initial Closed-in Pressure	1396	PSI
(E) Second Initial Flow Pressure	153	PSI
(F) Second Final Flow Pressure	809	PSI
(G) Final Closed-in Pressure	1369	PSI
(H) Final Hydrostatic Mud	1713	PSI

Pickrell Drilling Co.
Voth #2

Test # 2
TKT# 4047



This is an actual photograph of recorder chart.

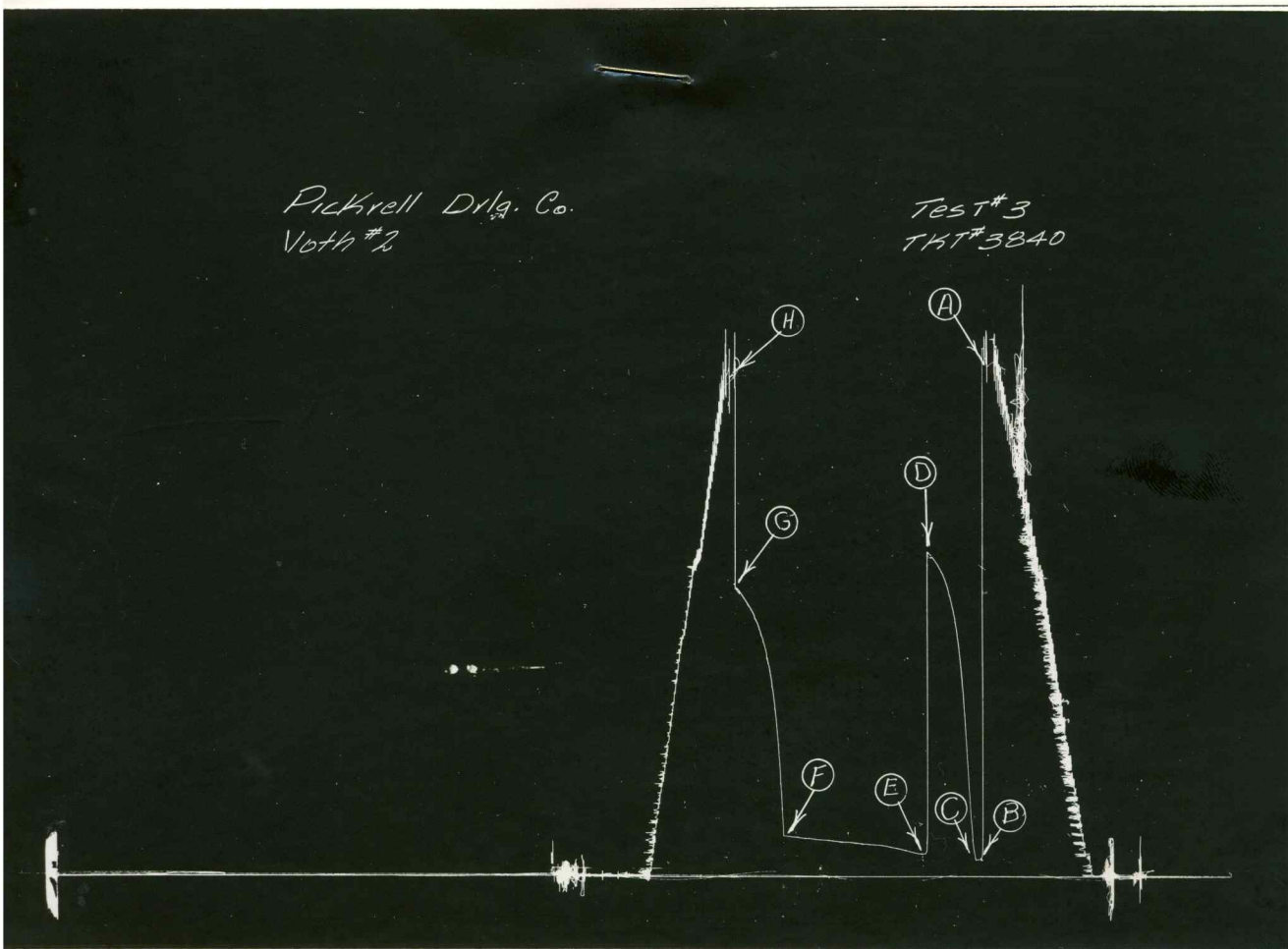
POINT

PRESSURE

(A)	Initial Hydrostatic Mud	1974	PSI
(B)	First Initial Flow Pressure	52	PSI
(C)	First Final Flow Pressure	52	PSI
(D)	Initial Closed-in Pressure	1497	PSI
(E)	Second Initial Flow Pressure	86	PSI
(F)	Second Final Flow Pressure	443	PSI
(G)	Final Closed-in Pressure	1463	PSI
(H)	Final Hydrostatic Mud	1970	PSI

Pickrell Drilg. Co.
Voth #2

Test #3
TKT#3840



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A)	Initial Hydrostatic Mud	2213	PSI
(B)	First Initial Flow Pressure	73	PSI
(C)	First Final Flow Pressure	73	PSI
(D)	Initial Closed-in Pressure	1403	PSI
(E)	Second Initial Flow Pressure	98	PSI
(F)	Second Final Flow Pressure	173	PSI
(G)	Final Closed-in Pressure	1248	PSI
(H)	Final Hydrostatic Mud	2175	PSI

COMPANY

Pickrell Drilling Company

LEASE AND WELL NO.

Tooth #2

SEC.

24

TWP.

29

RGE.

6W

TEST NO.

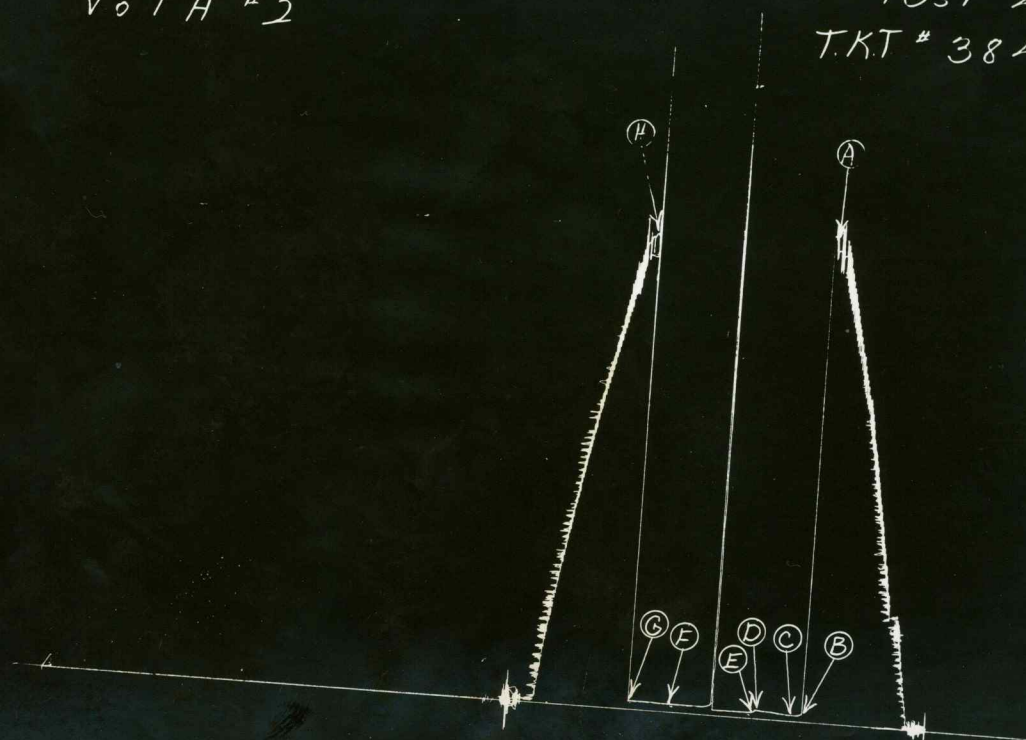
4

DATE

6-18-64

PICKRELL DrLg. Co
 VOTH #2

Test #4
 TKT # 3841



This is an actual photograph of recorder chart.

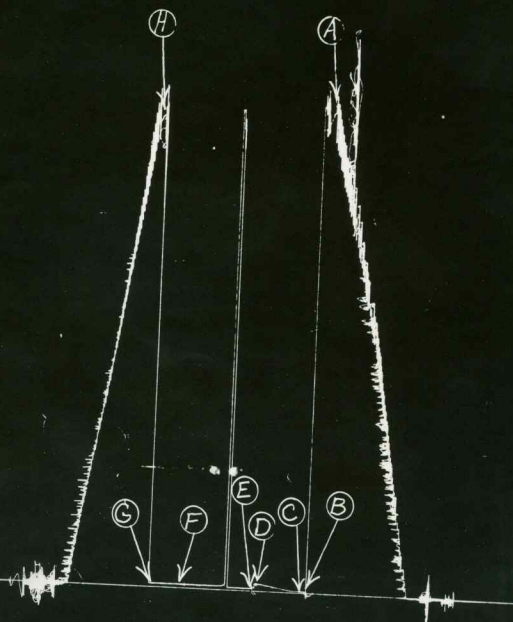
POINT

PRESSURE

(A) Initial Hydrostatic Mud	2316	PSI
(B) First Initial Flow Pressure	31	PSI
(C) First Final Flow Pressure	27	PSI
(D) Initial Closed-in Pressure	43	PSI
(E) Second Initial Flow Pressure	30	PSI
(F) Second Final Flow Pressure	42	PSI
(G) Final Closed-in Pressure	42	PSI
(H) Final Hydrostatic Mud	2301	PSI

Pickrell DrLg. Co.
VOTH #2

Test # 5
TKT 3842



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2354	PSI
(B) First Initial Flow Pressure	8	PSI
(C) First Final Flow Pressure	8	PSI
(D) Initial Closed-in Pressure	43	PSI
(E) Second Initial Flow Pressure	10	PSI
(F) Second Final Flow Pressure	18	PSI
(G) Final Closed-in Pressure	18	PSI
(H) Final Hydrostatic Mud	2337	PSI