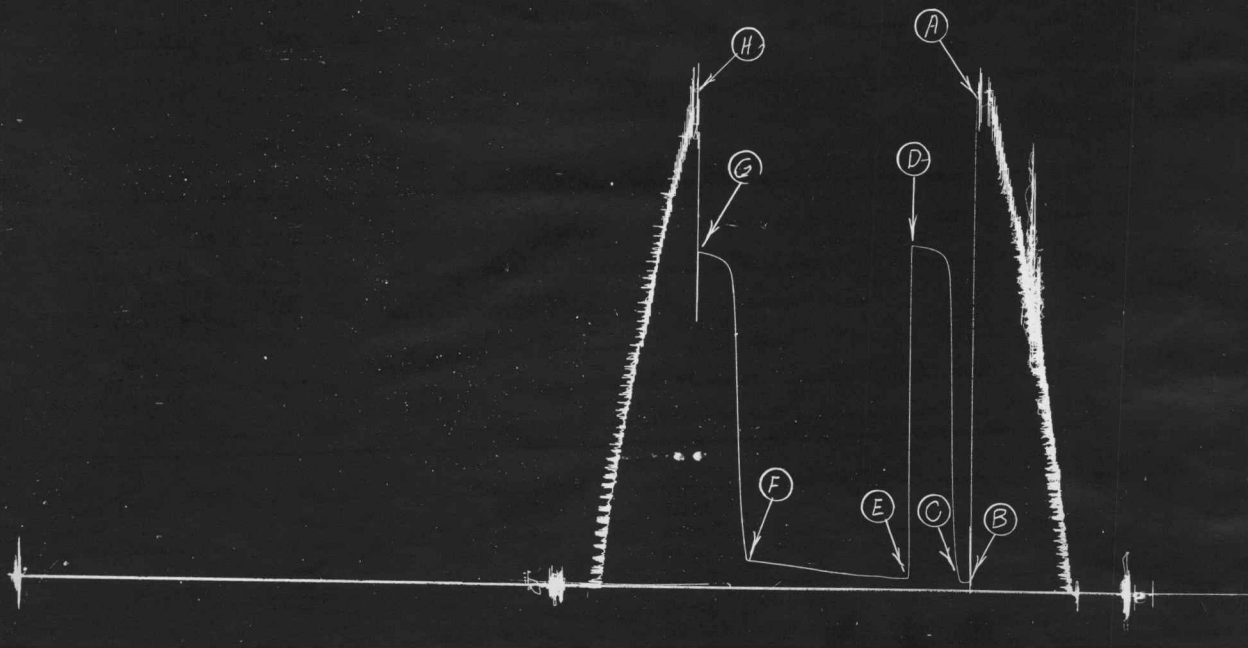


Pickwell Drlg. Co.
McCormick #1

Test #2
TKT#4072





TIGHT HOLE

Home Office: Great Bend, Kansas

P. O. Box 793

Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #1
 Elevation 1541 Derrick Floor Ticket Number 4071
 Date July 13, 1964 Sec. 20 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 3675 to 3689' Total Depth 3689'
 Size Main Hole 7 5/8 Rat Hole None Conv. ☒ B.T. ☐ Damaged ☐ Yes ☐ No ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☐ No ☐
 Packer Depth 3675 Ft. Size 6 3/4 Packer Depth 3670 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 14 Ft. Size 5 1/2 O. D.

RECORDERS Depth 3680 Ft. Clock No. 6861 Depth 3683 Ft. Clock No. 153
 Top Make Amerada Cap. 4200 No. 1558 Inside Outside
 Bottom Make Western Cap. 4000 No. 60 Inside Outside
 Below Straddle: Depth Clock No. Inside Outside
 Top Make Cap. No. Inside Outside
 Bottom Make Cap. No. Inside Outside

Time Set Packer 5:30 P M
 Tool Open I.F.P. From 5:34 P M to 5:39 P M Hr. 5 Min. From (B) 92 P.S.I. To (C) 92 P.S.I.
 Tool Closed I.C.I.P. From 5:39 P M. to 6:09 P M. Hr. 30 Min. (D) 1601 P.S.I.
 Tool Open F.F.P. From 6:09 P M. to 7:39 P M. Hr. 1 Min. From (E) 116 P.S.I. To (F) 276 P.S.I.
 Tool Closed F.C.I.P. From 7:39 P M. to 8:09 P M. Hr. 30 Min. (G) 1498 P.S.I.
 Initial Hydrostatic Pressure (A) 2146 P.S.I. Final Hydrostatic Pressure (H) 2140 P.S.I.

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

BLOW Weak blow increasing to fair in 60 minutes Bottom Choke Size 3/4 In.
 Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 440' muddly salt water with scum of oil

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 44 Weight 10 Maximum Temp. 126 °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 2905 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 750 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.
 I. D. Drill Collars in. Length D. S. T. Tool 34 ft.

Remarks Amerada clock jammed when tool hit bridge going in hole.

WESTERN TESTING CO., INC.

Pressure Data

Date July 13, 1964 Test Ticket No. 4071
 Recorder No. 60 Capacity 4000 Location 3680 Ft.
 Clock No. 153 Elevation 1541 Derrick Floor Well Temperature 126 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2146</u> P.S.I.	<u>5:30 P M</u>	
B First Initial Flow Pressure	<u>92</u> P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>92</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>1601</u> P.S.I.	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>116</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>276</u> P.S.I.		
G Final Closed-in Pressure	<u>1498</u> P.S.I.		
H Final Hydrostatic Mud	<u>2140</u> P.S.I.		

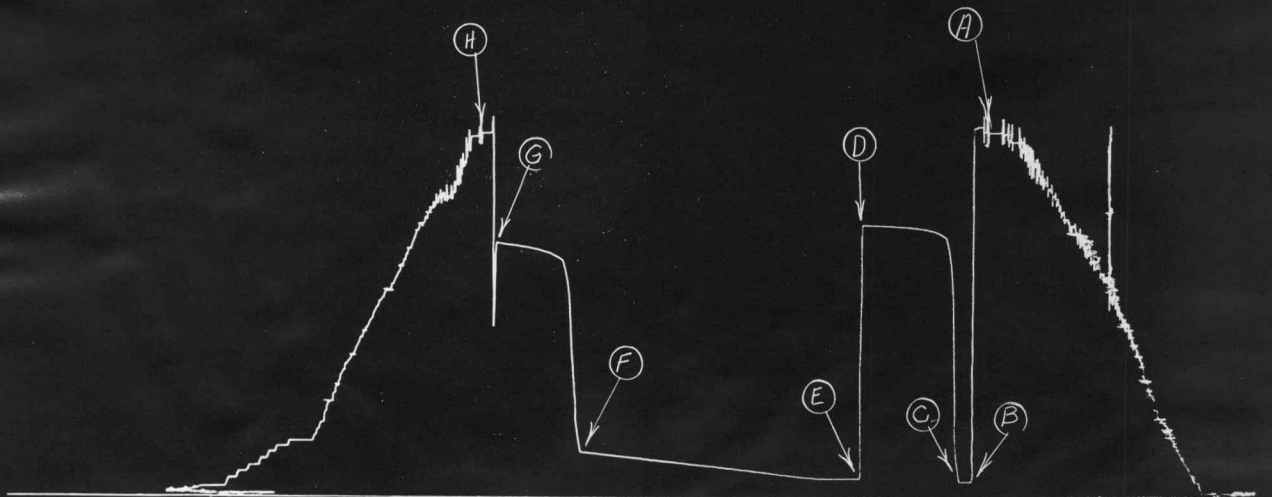
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>9</u> Inc.	Breakdown: <u>19</u> Inc.	Breakdown: <u>9</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>92</u>	<u>0</u>	<u>92</u>	<u>0</u>	~~1601~~ <u>116</u>	<u>0</u>	<u>276</u>
P 2 <u>5</u>	<u>92</u>	<u>3</u>	<u>1318</u>	<u>5</u>	<u>116</u>	<u>3</u>	<u>888</u>
P 3		<u>6</u>	<u>1550</u>	<u>10</u>	<u>117</u>	<u>6</u>	<u>1392</u>
P 4		<u>9</u>	<u>1574</u>	<u>15</u>	<u>123</u>	<u>9</u>	<u>1438</u>
P 5		<u>12</u>	~~1588~~ <u>1586</u>	<u>20</u>	<u>136</u>	<u>12</u>	<u>1458</u>
P 6		<u>15</u>	<u>1590</u>	<u>25</u>	<u>154</u>	<u>15</u>	<u>1470</u>
P 7		<u>18</u>	<u>1594</u>	<u>30</u>	<u>170</u>	<u>18</u>	<u>1482</u>
P 8		<u>21</u>	<u>1598</u>	<u>35</u>	<u>182</u>	<u>21</u>	<u>1490</u>
P 9		<u>24</u>	<u>1599</u>	<u>40</u>	<u>194</u>	<u>24</u>	<u>1495</u>
P 10		<u>27</u>	<u>1601</u>	<u>45</u>	<u>206</u>	<u>27</u>	<u>1498</u>
P 11				<u>50</u>	<u>218</u>		
P 12				<u>55</u>	<u>230</u>		
P 13				<u>60</u>	<u>240</u>		
P 14				<u>65</u>	<u>251</u>		
P 15				<u>70</u>	<u>260</u>		
P 16				<u>75</u>	<u>266</u>		
P 17				<u>80</u>	<u>270</u>		
P 18				<u>85</u>	<u>276</u>		
P 19							
P 20							

Pickrell Drlg. Co.
McCormick #1

TEST # 1
TKT#4071





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

Company Pickrell Drilling Company Lease & Well No. Mc Cormick #1
Elevation 1541 Derrick Floor Ticket Number 4072
Date July 14, 1964 Sec. 20 Twp. 19 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 3702' to 3715' Total Depth 3715'
Size Main Hole 7 5/8 Rat Hole None Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐
Packer Depth 3702 Ft. Size 6 3/4 Packer Depth 3697 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 3706 Ft. Clock No. 6861 Depth 3709 Ft. Clock No. 153
Top Make Amerada Cap. 4200 No. 1558 Inside Bottom Make Western Cap. 4000 No. 60 Inside
Below Straddle: Depth Clock No. Inside Depth Ft. Clock No. Inside
Top Make Cap. No. Outside Bottom Make Cap. No. Outside

Time Set Packer 7:02A. M
Tool Open I.F.P. From 7:05 A M to 7:10 A M Hr. 5 Min. From (B) 37 P.S.I. To (C) 37 P.S.I.
Tool Closed I.C.I.P. From 7:10 A M. to 7:40 A M. Hr. 30 Min. (D) 1437 P.S.I.
Tool Open F.F.P. From 7:40 A M. to 9:10 A M. 1 Hr. 30 Min. From (E) 52 P.S.I. To (F) 115 P.S.I.
Tool Closed F.C.I.P. From 9:10 A M. to 9:40 A M. Hr. 30 Min. (G) 1399 P.S.I.
Initial Hydrostatic Pressure (A) 2029 P.S.I. Final Hydrostatic Pressure (H) 2006 P.S.I.

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

BLOW Good blow throughout test Bottom Choke Size 3/4 in.
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 248' total fluid - 930' gas in pipe - 124' slightly oil and
gas cut mud - 124' muddy salt water

Reversed Out ☐ Yes ☐ No ☐ Mud Type starch Viscosity 44 Weight 10 Maximum Temp. 131 °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 2932 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 750 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 July 14, 1964 Test Ticket No. 4072
 Recorder No. 1558 Capacity 4200 Location 3706 Ft.
 Clock No. 6861 Elevation 1541 Derrick Floor Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2029</u> P.S.I.	Opened Tool	<u>7:02 A</u> M	
B First Initial Flow Pressure	<u>37</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>37</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1437</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>52</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>115</u> P.S.I.			
G Final Closed-in Pressure	<u>1399</u> P.S.I.			
H Final Hydrostatic Mud	<u>2006</u> P.S.I.			

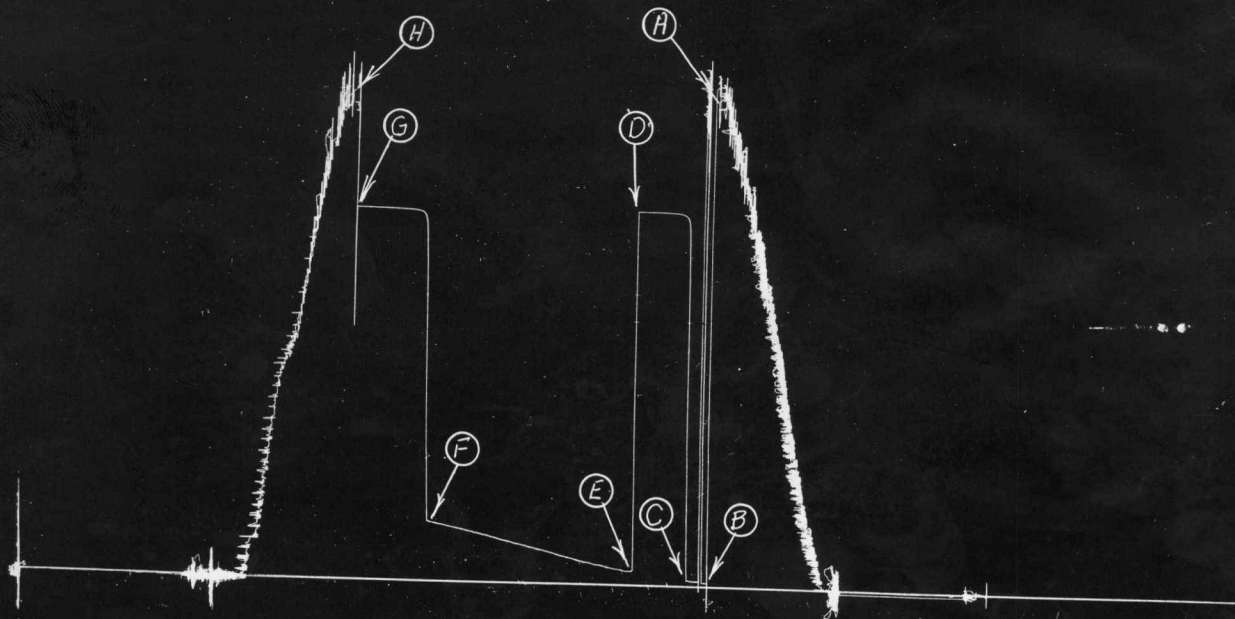
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>10</u> Inc.	Breakdown: <u>18</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>37</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>115</u>
P 2 <u>5</u>	<u>37</u>	<u>3</u>	<u>134</u>	<u>5</u>	<u>52</u>	<u>3</u>	<u>246</u>
P 3		<u>6</u>	<u>424</u>	<u>10</u>	<u>53</u>	<u>6</u>	<u>570</u>
P 4		<u>9</u>	<u>1056</u>	<u>15</u>	<u>55</u>	<u>9</u>	<u>947</u>
P 5		<u>12</u>	<u>1359</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>1284</u>
P 6		<u>15</u>	<u>1403</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>1355</u>
P 7		<u>18</u>	<u>1418</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>1374</u>
P 8		<u>21</u>	<u>1424</u>	<u>35</u>	<u>69</u>	<u>21</u>	<u>1382</u>
P 9		<u>24</u>	<u>1430</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>1390</u>
P 10		<u>27</u>	<u>1433</u>	<u>45</u>	<u>75</u>	<u>27</u>	<u>1395</u>
P 11		<u>30</u>	<u>1437</u>	<u>50</u>	<u>82</u>	<u>30</u>	<u>1399</u>
P 12				<u>55</u>	<u>87</u>		
P 13				<u>60</u>	<u>92</u>		
P 14				<u>65</u>	<u>96</u>		
P 15				<u>70</u>	<u>101</u>		
P 16				<u>75</u>	<u>105</u>		
P 17				<u>80</u>	<u>109</u>		
P 18				<u>85</u>	<u>112</u>		
P 19				<u>90</u>	<u>115</u>		
P 20							

Pickrell Drlg. Co.
Mc Cormick #1

Test # 3
TKT# 4073





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

Company Pickrell Drilling Company Lease & Well No. McCormick #1
Elevation 1541 Derrick Floor Ticket Number 4073
Date July 15, 1961 Sec. 20 Twp. 29 Range 6w County Kingman State Kansas
Test Approved by _____ Western Representative _____

Formation Test No. 3 O.K. ☒ Misrun _____ Interval Tested From 3738 to 3751 Total Depth 3751
Size Main Hole 7 5/8 Rat Hole None Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____
Packer Depth 3738 Ft. Size 6 3/4 Packer Depth 3733 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>3742</u> Ft.	Clock No. <u>6861</u>	Depth <u>3745</u> Ft.	Clock No. <u>153</u>
	Top Make <u>Amerada</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. _____
	Top Make _____ Cap. _____ No. _____	Inside _____ Outside _____	Bottom Make _____ Cap. _____ No. _____	Inside _____ Outside _____

Time Set Packer 9:43 P M
Tool Open I.F.P. From 9:45 P M to 9:50 P M Hr. 5 Min. From (B) 14 P.S.I. To (C) 23 P.S.I.
Tool Closed I.C.I.P. From 9:50 P M. to 10:20 P M. Hr. 30 Min. (D) 1556 P.S.I.
Tool Open F.F.P. From 10:20 P M. to 12:20 A M. 2 Hr. Min. From (E) 56 P.S.I. To (F) 248 P.S.I.
Tool Closed F.C.I.P. From 12:20 A M. to 12:50 A M. Hr. 30 Min. (G) 1546 P.S.I.
Initial Hydrostatic Pressure (A) 2038 P.S.I. Final Hydrostatic Pressure (H) 2035 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 Fair blow throughout Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 4961 slightly muddy salt water

Reversed Out. _____ Yes ☒ No _____ Mud Type starch Viscosity 46 Weight 10.2 Maximum Temp. 132 °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 2968 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 750 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 July 15, 1964 Test Ticket No. 4073
 Recorder No. 1558 Capacity 4200 Location 3742 Ft.
 Clock No. 6861 Elevation 1541 Derrick Floor Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2038</u>	P.S.I.	<u>9:43 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>14</u>	P.S.I.	<u>5</u>	<u>5</u> Mins.
C First Final Flow Pressure	<u>23</u>	P.S.I.	<u>30</u>	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1556</u>	P.S.I.	<u>120</u>	<u>117</u> Mins.
E Second Initial Flow Pressure	<u>56</u>	P.S.I.	<u>30</u>	<u>38</u> Mins.
F Second Final Flow Pressure	<u>248</u>	P.S.I.		
G Final Closed-in Pressure	<u>1546</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2035</u>	P.S.I.		

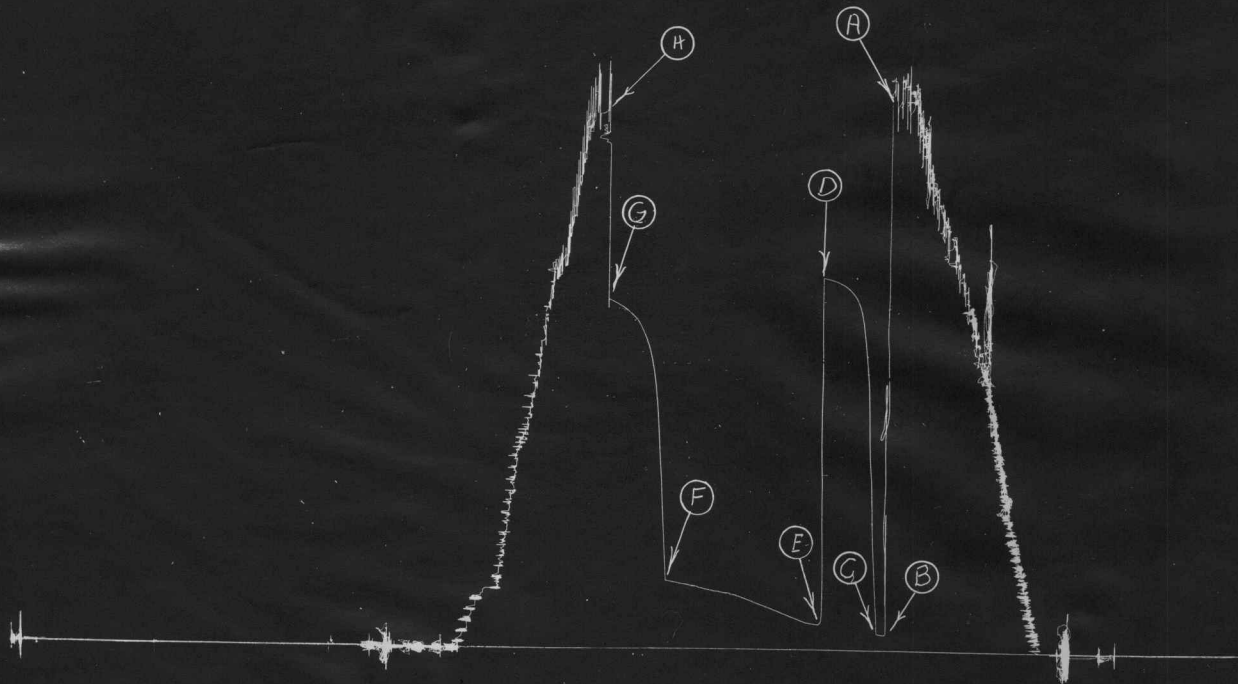
PRESSURE BREAKDOWN

First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>23</u> Inc.	Breakdown: <u>12</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>2</u> Min.	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>14</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>248</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>631</u>	<u>5</u>	<u>59</u>	<u>3</u>	<u>958</u>
P 3		<u>6</u>	<u>1542</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>1529</u>
P 4		<u>9</u>	<u>1554</u>	<u>15</u>	<u>71</u>	<u>9</u>	<u>1540</u>
P 5		<u>12</u>	<u>1555</u>	<u>20</u>	<u>80</u>	<u>12</u>	<u>1542</u>
P 6		<u>15</u>	<u>1556</u>	<u>25</u>	<u>88</u>	<u>15</u>	<u>1544</u>
P 7		<u>18</u>	<u>1556</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>1545</u>
P 8		<u>21</u>	<u>1556</u>	<u>35</u>	<u>105</u>	<u>21</u>	<u>1546</u>
P 9		<u>24</u>	<u>1556</u>	<u>40</u>	<u>115</u>	<u>24</u>	<u>1546</u>
P 10		<u>27</u>	<u>1556</u>	<u>45</u>	<u>124</u>	<u>27</u>	<u>1546</u>
P 11		<u>30</u>	<u>1556</u>	<u>50</u>	<u>134</u>	<u>30</u>	<u>1546</u>
P 12		<u>33</u>	<u>1556</u>	<u>55</u>	<u>143</u>	<u>33</u>	<u>1546</u>
P 13				<u>60</u>	<u>151</u>	<u>36</u>	<u>1546</u>
P 14				<u>65</u>	<u>160</u>	<u>38</u>	<u>1546</u>
P 15				<u>70</u>	<u>168</u>		
P 16				<u>75</u>	<u>177</u>		
P 17				<u>80</u>	<u>187</u>		
P 18				<u>85</u>	<u>196</u>		
P 19				<u>90</u>	<u>204</u>		
P 20				<u>95</u>	<u>213</u>		
				<u>100</u>	<u>221</u>		
				<u>105</u>	<u>227</u>		
				<u>110</u>	<u>238</u>		
				<u>115</u>	<u>242</u>		
				<u>117</u>	<u>248</u>		

Pickrell Drlg. Co.
McCormick #A-1

Test #6
TKT#3851





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

TIGHT HOLE

Company Pickrell Drilling Co. Lease & Well No. McCormick # 1-A
Elevation 1541 Derrick Floor Ticket Number 3851
Date July 18, 1964 Sec. 20 Twp. 29 Range 6w County Kingman State Kansas
Test Approved by George E. Link Western Representative George Tew

Formation Test No. 6 O.K. ☒ Misrun _____ Interval Tested From 4143 to 4163 Total Depth 4163'
Size Main Hole 7 5/8 Rat Hole None Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No _____
Packer Depth 4143 Ft. Size 6 3/4 Packer Depth 4138 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 20 Ft. Size 5 1/2 O. D.

RECORDERS Depth 4157 Ft. Clock No. 6861 Depth 4160 Ft. Clock No. 153
Top Make Amerada Cap. 4200 No. 1558 Inside _____ Outside _____ Bottom Make Western Cap. 1000 No. 60 Inside _____ Outside _____
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 9:39 P M
Tool Open I.F.P. From 9:42 P M to 9:47 P M Hr. 5 Min. From (B) 67 P.S.I. To (C) 71 P.S.I.
Tool Closed I.C.I.P. From 9:47 P M. to 10:17 P M. Hr. 30 Min. (D) 1546 P.S.I.
Tool Open F.F.P. From 10:17 P M. to 11:47 P M. 1 Hr. 30 Min. From (E) 107 P.S.I. To (F) 289 P.S.I.
Tool Closed F.C.I.P. From 11:47 P M. to 12:17 P M. Hr. 30 Min. (G) 1453 P.S.I.
Initial Hydrostatic Pressure (A) 2264 P.S.I. Final Hydrostatic Pressure (H) 2245 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 to surface in 12 minutes - Too weak to guage Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes _____ No _____ Recovery Total Ft. 860' total fluid - 23' heavy oil and gas cut mud, 620' muddy
gassy oil - 93' clean gassy oil - 124' salt water _____ Mud

Reversed Out ☒ Yes _____ No _____ Mud Type starch Viscosity 48 Weight 10.3 Maximum Temp. 132 °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 3373 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 750 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D. S. T. Tool 40 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date July 18, 1964 Test Ticket No. 3851
 Recorder No. 1558 Capacity 4200 Location 4157 Ft.
 Clock No. 6861 Elevation 1541 Derrick Floor Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2264</u> P.S.I.	Opened Tool	<u>9:39 P</u> M	
B First Initial Flow Pressure	<u>67</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>71</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1546</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>107</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>289</u> P.S.I.			
G Final Closed-in Pressure	<u>1453</u> P.S.I.			
H Final Hydrostatic Mud	<u>2245</u> P.S.I.			

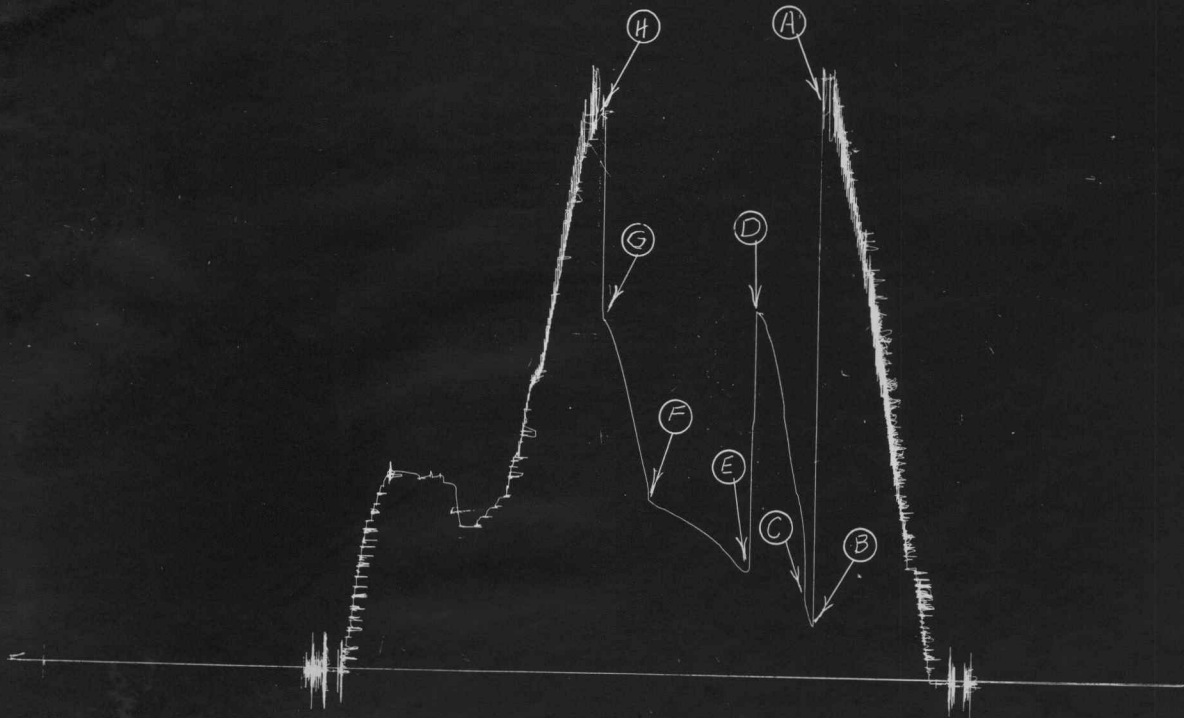
PRESSURE BREAKDOWN

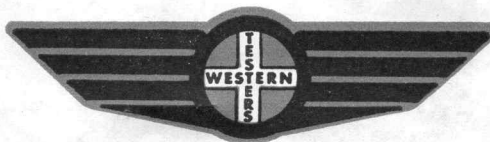
First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: <u>1</u> Inc.	Breakdown: <u>11</u> Inc.	Breakdown: <u>18</u> Inc.	Breakdown: <u>11</u> Inc.
of <u>5</u> mins. and a	of <u>3</u> mins. and a	of <u>5</u> mins. and a	of <u>3</u> mins. and a
final inc. of <u>0</u> Min.	final 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>67</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>107</u>	<u>0</u>	<u>289</u>
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>305</u>	<u>5</u>	<u>111</u>	<u>3</u>	<u>529</u>
P 3		<u>6</u>	<u>541</u>	<u>10</u>	<u>120</u>	<u>6</u>	<u>857</u>
P 4		<u>9</u>	<u>916</u>	<u>15</u>	<u>132</u>	<u>9</u>	<u>1158</u>
P 5		<u>12</u>	<u>1280</u>	<u>20</u>	<u>147</u>	<u>12</u>	<u>1273</u>
P 6		<u>15</u>	<u>1428</u>	<u>25</u>	<u>162</u>	<u>15</u>	<u>1336</u>
P 7		<u>18</u>	<u>1474</u>	<u>30</u>	<u>179</u>	<u>18</u>	<u>1372</u>
P 8		<u>21</u>	<u>1504</u>	<u>35</u>	<u>189</u>	<u>21</u>	<u>1397</u>
P 9		<u>24</u>	<u>1518</u>	<u>40</u>	<u>204</u>	<u>24</u>	<u>1418</u>
P 10		<u>27</u>	<u>1529</u>	<u>45</u>	<u>219</u>	<u>27</u>	<u>1432</u>
P 11		<u>30</u>	<u>1540</u>	<u>50</u>	<u>232</u>	<u>30</u>	<u>1441</u>
P 12		<u>33</u>	<u>1546</u>	<u>55</u>	<u>238</u>	<u>33</u>	<u>1453</u>
P 13				<u>60</u>	<u>244</u>		
P 14				<u>65</u>	<u>251</u>		
P 15				<u>70</u>	<u>261</u>		
P 16				<u>75</u>	<u>270</u>		
P 17				<u>80</u>	<u>276</u>		
P 18				<u>85</u>	<u>284</u>		
P 19				<u>90</u>	<u>289</u>		
P 20							

Pickrell Drilling Co.
McCormick #A-1

Test #9
TKT#5633





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

Company Pickrell Drilling Company Lease & Well No. McCormick A-1
Elevation 1544 Kelly Bushings Ticket Number 5633
Date July 22, 1964 Sec. 20 Twp. 29 Range 6w County Kingman State Kansas
Test Approved by George E. Link Western Representative Bill Hager

Formation Test No. 9 O.K. ☒ Misrun _____ Interval Tested From 4488' to 4510' Total Depth 4510'
Size Main Hole 7 7/8 Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No
Packer Depth 4483 Ft. Size 6 3/4 Packer Depth 4488 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 22 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>4501</u>	Ft.	Clock No. <u>6893</u>	Depth <u>4504</u>	Ft.	Clock No. <u>132</u>
	Top Make <u>Amerada</u>	Cap. <u>4300</u>	No. <u>1566</u>	Inside <u>Outside</u>	Bottom Make <u>Western</u>	Cap. <u>4000</u>
				No. <u>21</u>	Inside <u>Outside</u>	
Below Straddle:	Depth _____	Clock No. _____	Inside <u>Outside</u>	Depth _____	Ft.	Clock No. _____
	Top Make _____	Cap. _____	No. _____	Inside <u>Outside</u>	Bottom Make _____	Cap. _____
				No. _____	Inside <u>Outside</u>	

Time Set Packer 1:34 A/ M
Tool Open I.F.P. From 1:35 A M to 1:40 M Hr. 5 Min. From (B) 226 P.S.I. To (C) 330 P.S.I.
Tool Closed I.C.I.P. From 1:41 M. to 2:11 M. Hr. 30 Min. (D) 1562 P.S.I.
Tool Open F.F.P. From 2:12 M. to 3:12 M. 1 Hr. 450 P.S.I. To (F) 757 P.S.I.
Tool Closed F.C.I.P. From 3:13 M. to 3:43 M. Hr. 30 Min. (G) 1515 P.S.I.
Initial Hydrostatic Pressure (A) 2414 P.S.I. Final Hydrostatic Pressure (H) 2386 P.S.I.

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

BLOW Strong blow for 45 minutes - then decreasing Bottom Choke Size 3/4 in.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1643' oil and gas cut muddy salt water

Reversed Out ☒ Yes _____ No _____ Mud Type starch Viscosity 48 Weight 10.1 Maximum Temp. 138 °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 3599 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 41 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date July 22, 1964 Test Ticket No. 5633
 Recorder No. 1566 Capacity 4300 Location 4501 Ft.
 Clock No. 6893 Elevation 1544 Kelly Bushings Well Temperature 138 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2414</u> P.S.I.	Opened Tool	<u>1:34</u> M	
B First Initial Flow Pressure	<u>226</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>330</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>32</u> Mins.
D Initial Closed-in Pressure	<u>1562</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>458</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>757</u> P.S.I.			
G Final Closed-in Pressure	<u>1515</u> P.S.I.			
H Final Hydrostatic Mud	<u>2386</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>12</u> Inc.	Breakdown: <u>9</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>2</u> Min.	final inc. of <u>0</u> Min.	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>226</u>	<u>0</u>	<u>330</u>	<u>0</u>	<u>458</u>	<u>0</u>	<u>757</u>
P 2 <u>5</u>	<u>330</u>	<u>3</u>	<u>669</u>	<u>5</u>	<u>470</u>	<u>3</u>	<u>883</u>
P 3		<u>6</u>	<u>793</u>	<u>10</u>	<u>510</u>	<u>6</u>	<u>974</u>
P 4		<u>9</u>	<u>883</u>	<u>15</u>	<u>553</u>	<u>9</u>	<u>1068</u>
P 5		<u>12</u>	<u>997</u>	<u>20</u>	<u>585</u>	<u>12</u>	<u>1171</u>
P 6		<u>15</u>	<u>1158</u>	<u>25</u>	<u>617</u>	<u>15</u>	<u>1257</u>
P 7		<u>18</u>	<u>1287</u>	<u>30</u>	<u>639</u>	<u>18</u>	<u>1332</u>
P 8		<u>21</u>	<u>1394</u>	<u>35</u>	<u>660</u>	<u>21</u>	<u>1401</u>
P 9		<u>24</u>	<u>1454</u>	<u>40</u>	<u>681</u>	<u>24</u>	<u>1463</u>
P 10		<u>27</u>	<u>1519</u>	<u>45</u>	<u>703</u>	<u>27</u>	<u>1504</u>
P 11		<u>30</u>	<u>1551</u>	<u>50</u>	<u>720</u>	<u>29</u>	<u>1515</u>
P 12		<u>32</u>	<u>1562</u>	<u>55</u>	<u>737</u>		
P 13				<u>60</u>	<u>757</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							