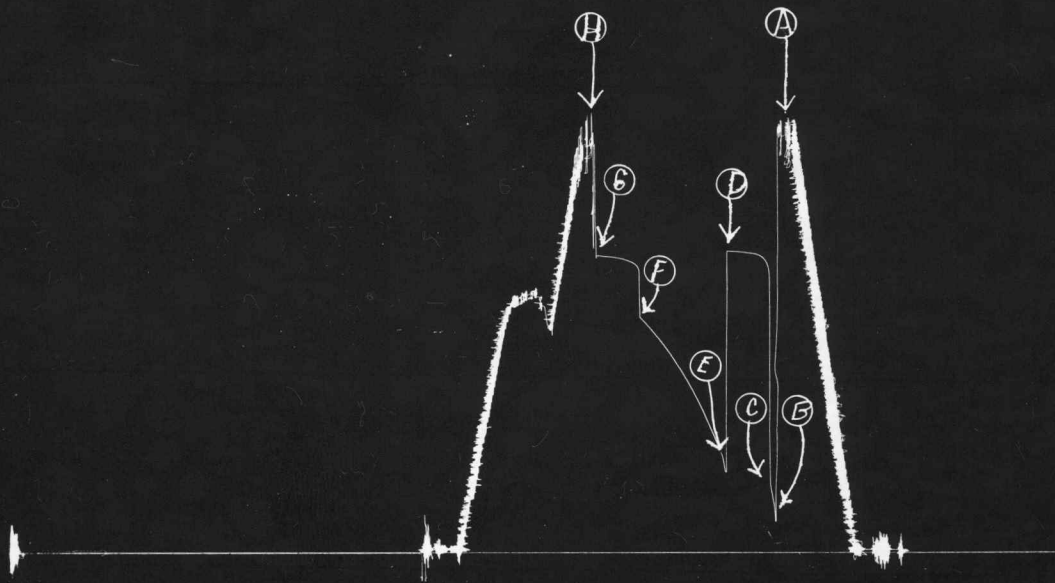


Pickrell Drlg Co.

MCKenna #B-1

TKT-10753

Test #1





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Pickrell Drlg. Co. Lease & Well No. McKenna # 1B
Elevation 1717 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticket No. 10753
Date 2-20-68 Sec. 22 Twp. 28 Range 9 County Kingman State Kansas
Test Approved by F. Judson Higgs Western Representative Leon Elmore
Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3884' to 3941' Total Depth 3941'
Size Main Hole 7 7/8 Rat Hole _____ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No
Packer Depth 3879 Ft. Size 6 3/4 Packer Depth 3884 Ft. Size 6 3/4
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 57 Ft. Size 31'-W.P. 26'-5 1/2
RECORDERS Depth 3900 Ft. Clock No. 6799 Depth 3903 Ft. Clock No. 6897
Top Make Kuster Cap. 4500 No. 3085 Inside _____ Outside _____ Bottom Make Kuster Cap. 4400 No. 2603 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 3:29 A. M
Tool Open I.F.P. From 3:31 M. to 3:36 A. M. Hr. 5 Min. From (B) 133 P.S.I. To (C) 334 P.S.I.
Tool Closed I.C.I.P. From 3:36 M. to 4:06 A M. Hr. 30 Min. (D) 1548 P.S.I.
Tool Open F.F.P. From 4:06 M. to 5:06 A M. 1 Hr. 00 Min. From (E) 394 P.S.I. To (F) 1203 P.S.I.
Tool Closed F.C.I.P. From 5:06 M. to 5:36 A M. Hr. 30 Min. (G) 1526 P.S.I.
Initial Hydrostatic Pressure (A) 2219 P.S.I. Final Hydrostatic Pressure (H) 2210 P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Strong - throughout Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 2220 feet salt water.
Reversed Out ☒ Yes _____ No _____ Mud Type starch Viscosity 41 Weight 10.1 Water Loss 15.2 cc. Maximum Temp. 130 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe 2990 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 906 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 45 ft.
Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 2-20-68 Test Ticket No. 10753
 Recorder No. 3085 Capacity 4500 Location 3900 Ft.
 Clock No. 6799 Elevation 1717 Derrick Floor Well Temperature 130 °F

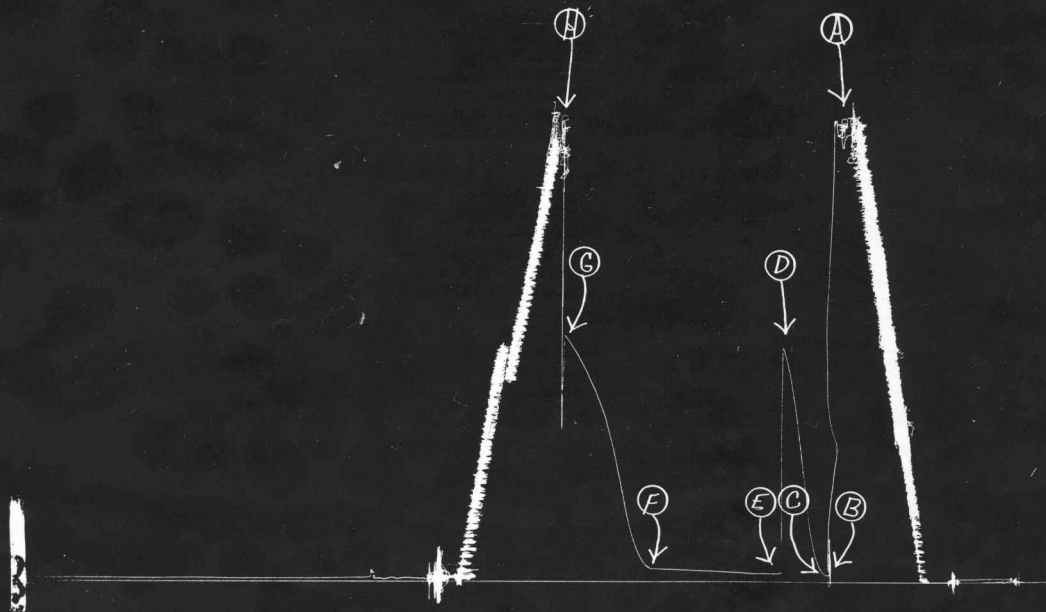
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2219</u>	P.S.I.	<u>3:29 A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>133</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>334</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1548</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>394</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>1203</u>	P.S.I.		
G Final Closed-in Pressure	<u>1526</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2210</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>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>--</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>133</u>	<u>0</u>	<u>334</u>	<u>0</u>	<u>394</u>	<u>0</u>	<u>1203</u>
P 2 <u>5</u>	<u>334</u>	<u>3</u>	<u>1495</u>	<u>5</u>	<u>513</u>	<u>3</u>	<u>1476</u>
P 3 _____		<u>6</u>	<u>1523</u>	<u>10</u>	<u>609</u>	<u>6</u>	<u>1497</u>
P 4 _____		<u>9</u>	<u>1532</u>	<u>15</u>	<u>694</u>	<u>9</u>	<u>1504</u>
P 5 _____		<u>12</u>	<u>1539</u>	<u>20</u>	<u>776</u>	<u>12</u>	<u>1511</u>
P 6 _____		<u>15</u>	<u>1541</u>	<u>25</u>	<u>846</u>	<u>15</u>	<u>1516</u>
P 7 _____		<u>18</u>	<u>1543</u>	<u>30</u>	<u>916</u>	<u>18</u>	<u>1518</u>
P 8 _____		<u>21</u>	<u>1546</u>	<u>35</u>	<u>979</u>	<u>21</u>	<u>1523</u>
P 9 _____		<u>24</u>	<u>1547</u>	<u>40</u>	<u>1034</u>	<u>24</u>	<u>1524</u>
P 10 _____		<u>27</u>	<u>1547</u>	<u>45</u>	<u>1087</u>	<u>27</u>	<u>1525</u>
P 11 _____		<u>30</u>	<u>1548</u>	<u>50</u>	<u>1131</u>	<u>30</u>	<u>1526</u>
P 12 _____				<u>55</u>	<u>1173</u>		
P 13 _____				<u>60</u>	<u>1203</u>		
P 14 _____							
P 15 _____							
P 16 _____							
P 17 _____							
P 18 _____							
P 19 _____							
P 20 _____							

Pickrell Drilling Co
M^cKenna B-1

TKT-7983
Test #2





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Pickrell Drilg. Co.

Lease & Well No. McKenna B#1

Company 1717 Derrick Floor Formation Mississippian Effective Pay Ft. Ticket No. 7983

Elevation 1717 Derrick Floor Formation Mississippian Effective Pay Ft. Ticket No. 7983

Date 2-21-68 Sec. 22 Twp. 28s Range 9w County Kingman State Kansas

Test Approved by F. Judson Hipps Western Representative George Tew

Formation Test No. 2 O.K. X Misrun Interval Tested From 4162' to 4172' Total Depth 4172'

Size Main Hole 7 7/8 Rat Hole none Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 4162 Ft. Size 6 3/4 Packer Depth 4157 Ft. Size 6 3/4

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 10 Ft. Size 5 1/2" OD

RECORDERS Depth 4165 Ft. Clock No. 6896 Depth 4168 Ft. Clock No. 6866

Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 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 5:52 P. M

Tool Open I.F.P. From 5:55 M. to 6:00 P M. Hr. 5 Min. From (B) 9 P.S.I. To (C) 18 P.S.I.

Tool Closed I.C.I.P. From 6:00 M. to 6:30 P M. Hr. 30 Min. (D) 1171 P.S.I.

Tool Open F.F.P. From 6:30 M. to 8:00 P M. Hr. 30 Min. From (E) 21 P.S.I. To (F) 47 P.S.I.

Tool Closed F.C.I.P. From 8:00 M. to 9:00 P M. Hr. -- Min. (G) 1236 P.S.I.

Initial Hydrostatic Pressure (A) 2273 P.S.I. Final Hydrostatic Pressure (H) 2241 P.S.I.

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

INFORMATION

BLOW Weak - decreasing slightly throughout test. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 100 feet thin mud with slight show of oil

Reversed Out Yes X No Mud Type starch Viscosity 43 Weight 10.3 Water Loss cc. Maximum Temp. 128 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 3272 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 30 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 2-21-68 Test Ticket No. 7983
 Recorder No. 3086 Capacity 4500 Location 4165 Ft.
 Clock No. 6896 Elevation 1717 Derrick Floor Well Temperature 128 °F

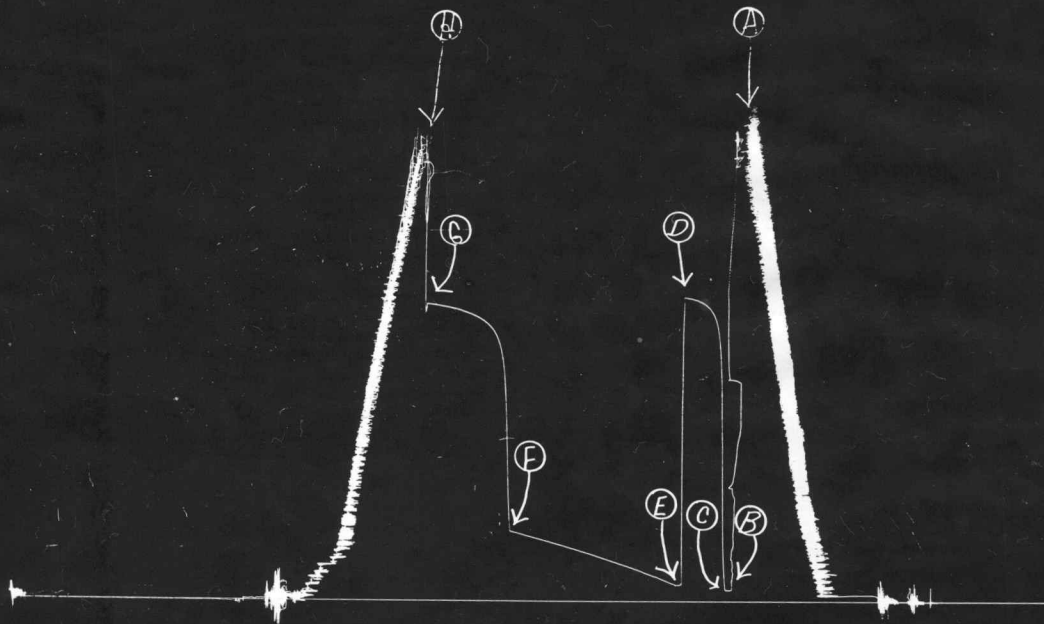
Point	Pressure		Time Given	Time Computed
			5:52 P.	M
A Initial Hydrostatic Mud	2273 P.S.I.	Opened Tool	5 Mins.	5 Mins.
B First Initial Flow Pressure	9 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	18 P.S.I.	Initial Closed-in Pressure	90 Mins.	90 Mins.
D Initial Closed-in Pressure	1171 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	21 P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	47 P.S.I.			
G Final Closed-in Pressure	1236 P.S.I.			
H Final Hydrostatic Mud	2241 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>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>--</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>9</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>47</u>	<u>5</u>	<u>21</u>	<u>3</u>	<u>61</u>
P 3		<u>6</u>	<u>106</u>	<u>10</u>	<u>21</u>	<u>6</u>	<u>89</u>
P 4		<u>9</u>	<u>208</u>	<u>15</u>	<u>23</u>	<u>9</u>	<u>130</u>
P 5		<u>12</u>	<u>390</u>	<u>20</u>	<u>24</u>	<u>12</u>	<u>189</u>
P 6		<u>15</u>	<u>597</u>	<u>25</u>	<u>26</u>	<u>15</u>	<u>272</u>
P 7		<u>18</u>	<u>767</u>	<u>30</u>	<u>28</u>	<u>18</u>	<u>381</u>
P 8		<u>21</u>	<u>906</u>	<u>35</u>	<u>30</u>	<u>21</u>	<u>500</u>
P 9		<u>24</u>	<u>1020</u>	<u>40</u>	<u>33</u>	<u>24</u>	<u>616</u>
P10		<u>27</u>	<u>1102</u>	<u>45</u>	<u>33</u>	<u>27</u>	<u>706</u>
P11		<u>30</u>	<u>1171</u>	<u>50</u>	<u>35</u>	<u>30</u>	<u>785</u>
P12				<u>55</u>	<u>37</u>	<u>33</u>	<u>855</u>
P13				<u>60</u>	<u>40</u>	<u>36</u>	<u>920</u>
P14				<u>65</u>	<u>40</u>	<u>39</u>	<u>979</u>
P15				<u>70</u>	<u>41</u>	<u>42</u>	<u>1032</u>
P16				<u>75</u>	<u>43</u>	<u>45</u>	<u>1074</u>
P17				<u>80</u>	<u>44</u>	<u>48</u>	<u>1118</u>
P18				<u>85</u>	<u>45</u>	<u>51</u>	<u>1155</u>
P19				<u>90</u>	<u>47</u>	<u>54</u>	<u>1185</u>
P20						<u>57</u>	<u>1215</u>
						<u>60</u>	<u>1236</u>

Pickrell Drilling Co
17th Kenna #B-1

TKT-7984
Test #3





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Pickrell Drlg. Co. Lease & Well No. McKenna B#1
Elevation 1717 Derrick Floor Formation Mississippian Effective Pay _____ Ft. Ticket No. 7984
Date 2-22-68 Sec. 22 Twp. 28s Range 9w County Kingman State Kansas
Test Approved by F. Judson Hipps Western Representative George Tew
Formation Test No. 3 O.K. x Misrun _____ Interval Tested From 4172' to 4195' Total Depth 4195'
Size Main Hole 7 7/8 Rat Hole none Conv. _____ B.T. xxxx Damaged _____ Yes x No Conv xxxx B.T. _____ Damaged _____ Yes x No
Packer Depth 4172 Ft. Size 6 3/4 Packer Depth 4167 Ft. Size 6 3/4
Straddle _____ Yes _____ No x Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" FH Anchor Length 23 Ft. Size 5 1/2" OD
RECORDERS Depth 4187 Ft. Clock No. 6896 Depth 4190 Ft. Clock No. 6866
Top Make Kuster Cap. 4500 No. 3086 Inside _____ Outside _____ Bottom Make Kuster Cap. 4300 No. 1566 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 8:22 A. M
Tool Open I.F.P. From 8:25 M. to 8:30 A M. Hr. 5 Min. From (B) 35 P.S.I. To (C) 35 P.S.I.
Tool Closed I.C.I.P. From 8:30 M. to 9:00 A M. Hr. 30 Min. (D) 1506 P.S.I.
Tool Open F.F.P. From 9:00 M. to 11:00 A M. Hr. 2 Min. From (E) 61 P.S.I. To (F) 338 P.S.I.
Tool Closed F.C.I.P. From 11:00 M. to 12:00 A M. Hr. 1 Min. (G) 1475 P.S.I.
Initial Hydrostatic Pressure (A) 2228 P.S.I. Final Hydrostatic Pressure (H) 2203 P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak and steady Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes x No Recovery Total Ft. 620 feet muddy salt water.
Reversed Out _____ Yes x No Mud Type starch Viscosity 43 Weight 10.3 Water Loss _____ cc. Maximum Temp 129 °F
Type Circ. Sub. plug Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____
Length Drill Pipe 3282 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 43 ft.
Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 2-22-68 Recorder No. 3086 Capacity 4500 Test Ticket No. 7984
 Clock No. 6896 Elevation 1717 Derrick Floor Location 4187 Ft.
 Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2228</u>	P.S.I.	<u>8:22 A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>35</u>	P.S.I.	<u>5</u>	<u>4</u>
C First Final Flow Pressure	<u>35</u>	P.S.I.	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>1506</u>	P.S.I.	<u>120</u>	<u>119</u>
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>60</u>	<u>60</u>
F Second Final Flow Pressure	<u>338</u>	P.S.I.		
G Final Closed-in Pressure	<u>1475</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2203</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>23</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>4</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>4</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>35</u>	<u>-</u>	<u>35</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>338</u>
P 2 <u>4</u>	<u>35</u>	<u>3</u>	<u>426</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>857</u>
P 3		<u>6</u>	<u>1136</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>1190</u>
P 4		<u>9</u>	<u>1367</u>	<u>15</u>	<u>97</u>	<u>9</u>	<u>1294</u>
P 5		<u>12</u>	<u>1430</u>	<u>20</u>	<u>111</u>	<u>12</u>	<u>1339</u>
P 6		<u>15</u>	<u>1462</u>	<u>25</u>	<u>125</u>	<u>15</u>	<u>1374</u>
P 7		<u>18</u>	<u>1479</u>	<u>30</u>	<u>139</u>	<u>18</u>	<u>1392</u>
P 8		<u>21</u>	<u>1490</u>	<u>35</u>	<u>151</u>	<u>21</u>	<u>1406</u>
P 9		<u>24</u>	<u>1497</u>	<u>40</u>	<u>165</u>	<u>24</u>	<u>1418</u>
P10		<u>27</u>	<u>1502</u>	<u>45</u>	<u>177</u>	<u>27</u>	<u>1427</u>
P11		<u>30</u>	<u>1506</u>	<u>50</u>	<u>189</u>	<u>30</u>	<u>1434</u>
P12				<u>55</u>	<u>203</u>	<u>33</u>	<u>1441</u>
P13				<u>60</u>	<u>215</u>	<u>36</u>	<u>1448</u>
P14				<u>65</u>	<u>225</u>	<u>39</u>	<u>1453</u>
P15				<u>70</u>	<u>236</u>	<u>42</u>	<u>1458</u>
P16				<u>75</u>	<u>248</u>	<u>45</u>	<u>1462</u>
P17				<u>80</u>	<u>260</u>	<u>48</u>	<u>1465</u>
P18				<u>85</u>	<u>272</u>	<u>51</u>	<u>1469</u>
P19				<u>90</u>	<u>281</u>	<u>54</u>	<u>1472</u>
P20				<u>95</u>	<u>291</u>	<u>57</u>	<u>1474</u>
				<u>100</u>	<u>300</u>	<u>60</u>	<u>1475</u>
				<u>105</u>	<u>312</u>		
				<u>110</u>	<u>322</u>		
				<u>115</u>	<u>334</u>		
				<u>119</u>	<u>338</u>		