



Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company A. L. Abercrombie Inc. Lease & Well No. Powell #2
Elevation 2576 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticket No. 17388
Date 4-18-73 Sec. 32 Twp. 1S Range 26W County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Kenneth Cheney
Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3374' to 3397' Total Depth 3397'
Size Main Hole 6 3/4" Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No
Packer Depth 3369 Ft. Size 5 1/2" Packer Depth 3374 Ft. Size 5 1/2"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 4 & 4 1/2" F.H. Anchor Length 23 Ft. Size 4 1/2" O.D.
RECORDERS Depth 3389 Ft. Clock No. 9727 Depth 3393 Ft. Clock No. 6893
Top Make Kuster Cap 4150 No. 2604 Inside Outside Bottom Make Kuster Cap 4150 No. 1567 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap _____ No. _____ Inside _____ Outside _____
Time Set Packer 11:39 A.M.
Tool Open I.F.P. From 11:40 M. to 11:45A. Hr. 5 Min. From (B) 0 P.S.I. To (C) 0 P.S.I.
Tool Closed I.C.I.P. From 11:45 M. to 12:15P. Hr. 30 Min. (D) 811 P.S.I.
Tool Open F.F.P. From 12:15 M. to 12:45P. Hr. 30 Min. From (E) 12 P.S.I. To (F) 12 P.S.I.
Tool Closed F.C.I.P. From 12:45 M. to 1:15P. Hr. 30 Min. (G) 591 P.S.I.
Initial Hydrostatic Pressure (A) 1823 P.S.I. Final Hydrostatic Pressure (H) 1810 P.S.I.
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak for 5 min. then died Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 3 feet oil cut mud
Reversed Out _____ Yes ☒ No _____ Mud Type Chem. Viscosity 62 Weight 10.2 Water Loss 12.2 cc. Maximum Temp. 98° °F
Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 1786 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1271 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 296 ft.
I.D. Drill Collars 2.7 in. Length D.S.T. Tool 44 ft.
Remarks Flush tool after 10 min. F.F.P.

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

Date 4-18-73 Test Ticket No. 17388
 Recorder No. 2604 Capacity 4150 Location 3393 Ft.
 Clock No. 9727 Elevation 2576 Derrick Floor Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1823</u> P.S.I.	Open Tool	<u>11:38 A.</u> M	
B First Initial Flow Pressure	<u>0</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>0</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>811</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>32</u> Mins.
E Second Initial Flow Pressure	<u>12</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>12</u> P.S.I.			
G Final Closed-in Pressure	<u>591</u> P.S.I.			
H Final Hydrostatic Mud	<u>1810</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>1</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</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>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>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>12</u>	<u>0</u>	<u>12</u>
P 2 <u>5</u>	<u>0</u>	<u>3</u>	<u>7</u>	<u>5</u>	<u>12</u>	<u>3</u>	<u>16</u>
P 3		<u>6</u>	<u>14</u>	<u>10</u>	<u>12</u>	<u>6</u>	<u>21</u>
P 4		<u>9</u>	<u>100</u>	<u>15</u>	<u>12</u>	<u>9</u>	<u>38</u>
P 5		<u>12</u>	<u>271</u>	<u>20</u>	<u>12</u>	<u>12</u>	<u>74</u>
P 6		<u>15</u>	<u>437</u>	<u>25</u>	<u>12</u>	<u>15</u>	<u>146</u>
P 7		<u>18</u>	<u>571</u>	<u>30</u>	<u>12</u>	<u>18</u>	<u>253</u>
P 8		<u>21</u>	<u>663</u>	<u>32</u>	<u>12</u>	<u>21</u>	<u>363</u>
P 9		<u>24</u>	<u>738</u>			<u>24</u>	<u>463</u>
P10		<u>27</u>	<u>786</u>			<u>27</u>	<u>548</u>
P11		<u>30</u>	<u>811</u>			<u>30</u>	<u>591</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2000	1823	PSI
(B) First Initial Flow Pressure	0	0	PSI
(C) First Final Flow Pressure	0	0	PSI
(D) Initial Closed-in Pressure	815	811	PSI
(E) Second Initial Flow Pressure	10	12	PSI
(F) Second Final Flow Pressure	10	12	PSI
(G) Final Closed-in Pressure	596	591	PSI
(H) Final Hydrostatic Mud	1947	1810	PSI



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P. O. Box 793 (316) 793-7903

Company A. L. Abercrombie Inc. Lease & Well No. Powell #2
Elevation 2576 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticket No. 17390
Date 4-19-73 Sec. 32 Twp. 1S Range 26W County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Kenneth Cheney
Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 3394 to 3410' Total Depth 3410'
Size Main Hole 6 3/4" Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No
Packer Depth 3389 Ft. Size 5 1/2" Packer Depth 3394 Ft. Size 5 1/2"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 4 & 4 1/2" F.H. Anchor Length 16 Ft. Size 4 1/2" O.D.
RECORDERS Depth 3403 Ft. Clock No. 9727 Depth 3406 Ft. Clock No. 6893
Top Make Kuster Cap 4150 No. 2604 ~~Inside~~ Outside Bottom Make Kuster Cap 4150 No. 1567 ~~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 1:12 A. M
Tool Open I.F.P. From 1:15 M. to 1:20A. M. Hr. 5 Min. From (B) 27 P.S.I. To (C) 17 P.S.I.
Tool Closed I.C.I.P. From 1:20 M. to 1:50A. M. Hr. 30 Min. (D) 104 P.S.I.
Tool Open F.F.P. From 1:50 M. to 2:20A. M. Hr. 30 Min. From (E) 17 P.S.I. To (F) 17 P.S.I.
Tool Closed F.C.I.P. From 2:20 M. to 2:50A. M. Hr. 30 Min. (G) 40 P.S.I.
Initial Hydrostatic Pressure (A) 1869 P.S.I. Final Hydrostatic Pressure (H) 1869 P.S.I.
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak for 5 min. then died Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 2 feet of oil cut mud
Reversed Out _____ Yes ☒ No _____ Mud Type Chem. Viscosity 47 Weight 10.1 Water Loss 11 cc. Maximum Temp. 98 °F
Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 1806 ft. I.D. Drill Pipe 3/8 in. Length Weight Pipe 1271 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 296 ft.
I.D. Drill Collars 2.7 in. Length D.S.T. Tool 37 ft.
Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 4-19-73

Test Ticket No. 17390

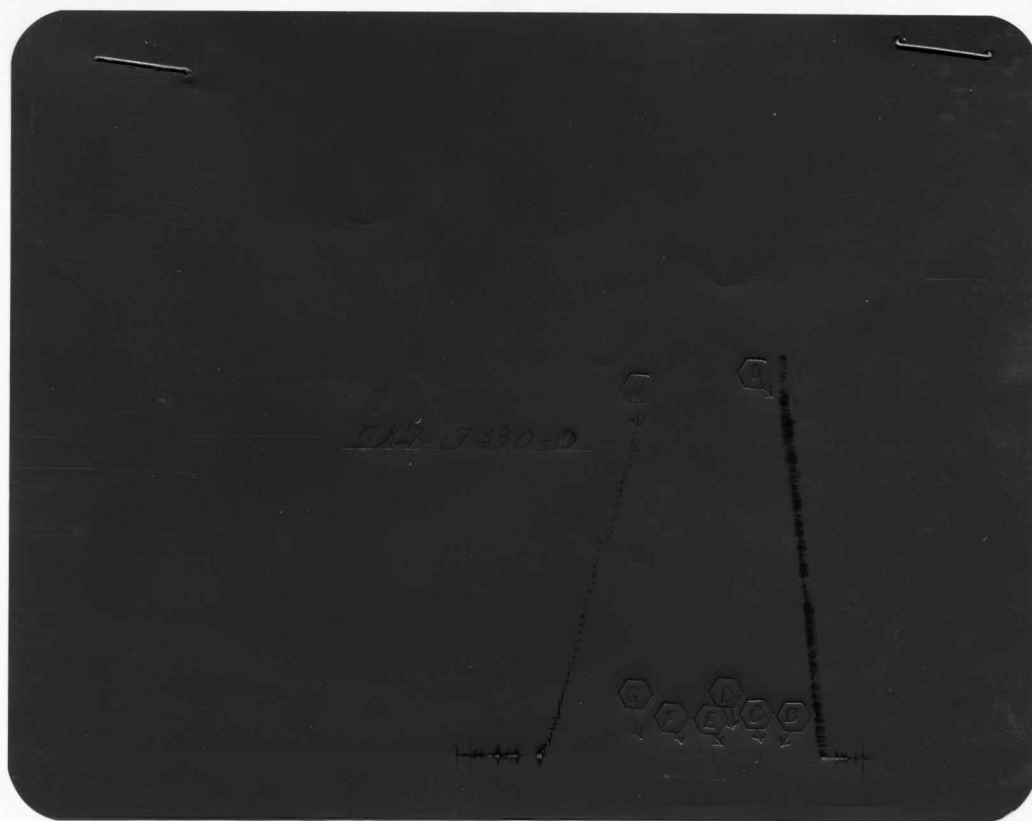
Recorder No. 2604 Capacity 4150 Location 3406 Ft.

Clock No. 9727 Elevation 2576 Derrick Floor Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1869</u> P.S.I.	Open Tool	<u>1:12 A.</u> M	
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>17</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>104</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>17</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>17</u> P.S.I.			
G Final Closed-in Pressure	<u>40</u> P.S.I.			
H Final Hydrostatic Mud	<u>1869</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>1</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</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>27</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>17</u>
P 2 <u>5</u>	<u>17</u>	<u>3</u>	<u>18</u>	<u>5</u>	<u>17</u>	<u>3</u>	<u>17</u>
P 3		<u>6</u>	<u>19</u>	<u>10</u>	<u>17</u>	<u>6</u>	<u>17</u>
P 4		<u>9</u>	<u>22</u>	<u>15</u>	<u>17</u>	<u>9</u>	<u>18</u>
P 5		<u>12</u>	<u>26</u>	<u>20</u>	<u>17</u>	<u>12</u>	<u>18</u>
P 6		<u>15</u>	<u>29</u>	<u>25</u>	<u>17</u>	<u>15</u>	<u>19</u>
P 7		<u>18</u>	<u>35</u>	<u>30</u>	<u>17</u>	<u>18</u>	<u>21</u>
P 8		<u>21</u>	<u>44</u>			<u>21</u>	<u>23</u>
P 9		<u>24</u>	<u>61</u>			<u>24</u>	<u>27</u>
P10		<u>27</u>	<u>87</u>			<u>27</u>	<u>32</u>
P11		<u>30</u>	<u>104</u>			<u>30</u>	<u>40</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2042	1869	PSI
(B) First Initial Flow Pressure	31	27	PSI
(C) First Final Flow Pressure	53	17	PSI
(D) Initial Closed-in Pressure	106	104	PSI
(E) Second Initial Flow Pressure	42	17	PSI
(F) Second Final Flow Pressure	42	17	PSI
(G) Final Closed-in Pressure	53	40	PSI
(H) Final Hydrostatic Mud	2000	1869	PSI



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Company A. L. Abercrombie Inc. Lease & Well No. Powell #2
Elevation 2576 Derrick Floor Formation Kansas City Effective Pay _____ Ft. Ticket No. 17391
Date 4-20-73 Sec. 32 Twp. 1S Range 26W County Decatur State Kansas
Test Approved by Jack K. Wharton Western Representative Jimmie Loftus
Formation Test No. 3 O.K. ☒ Misrun _____ Interval Tested From 3517' to 3540' Total Depth 3540'
Size Main Hole 6 3/4" Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No
Packer Depth 3512 Ft. Size 5 1/2" Packer Depth 3517 Ft. Size 5 1/2"
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size 4 1/2" O.D. Tool Jt. Size 4" & 4 1/2" F.H. Anchor Length 23 Ft. Size 4 1/2" O.D.
RECORDERS Depth 3533 Ft. Clock No. 9727 Depth 3536 Ft. Clock No. 6893
Top Make Kuster Cap 4150 No. 2604 Inside Outside Bottom Make Kuster Cap 4150 No. 1567 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap _____ No. _____ Inside _____ Outside _____
Time Set Packer 1:32 A.M.
Tool Open I.F.P. From 1:35 M. to 1:45A M. Hr. 10 Min. From (B) 7 P.S.I. To (C) 9 P.S.I.
Tool Closed I.C.I.P. From 1:45 M. to 2:15A M. Hr. 30 Min. (D) 26 P.S.I.
Tool Open F.F.P. From 2:15 M. to 2:45A M. Hr. 30 Min. From (E) 9 P.S.I. To (F) 10 P.S.I.
Tool Closed F.C.I.P. From 2:45 M. to 3:15A M. Hr. 30 Min. (G) 12 P.S.I.
Initial Hydrostatic Pressure (A) 1900 P.S.I. Final Hydrostatic Pressure (H) 1849 P.S.I.
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW Weak for 4 min. then died Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 5 feet mud
Reversed Out _____ Yes ☒ No _____ Mud Type Chem. Viscosity 50 Weight 10.1 Water Loss 10.4 cc. Maximum Temp. 99 °F
Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____
Length Drill Pipe 1929 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1271 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars 296 ft.
I.D. Drill Collars 2.7000 in. Length D.S.T. Tool 44 ft.
Remarks Flushed tool after 10 min. F.F.P.

WESTERN TESTING CO., INC.

Pressure Data

Date 4-20-73 Recorder No. 2604 Capacity 4150 Test Ticket No. 17391 Location 3533 Ft.
 Clock No. 9727 Elevation 2576 Derrick Floor Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1900</u> P.S.I.	Open Tool	<u>1:32 A.</u> M	
B First Initial Flow Pressure	<u>7</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>9</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>26</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>9</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>10</u> P.S.I.			
G Final Closed-in Pressure	<u>12</u> P.S.I.			
H Final Hydrostatic Mud	<u>1849</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</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>7</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>10</u>
P 2 <u>5</u>	<u>7</u>	<u>3</u>	<u>9</u>	<u>5</u>	<u>9</u>	<u>3</u>	<u>10</u>
P 3 <u>10</u>	<u>9</u>	<u>6</u>	<u>10</u>	<u>10</u>	<u>12</u>	<u>6</u>	<u>10</u>
P 4		<u>9</u>	<u>11</u>	<u>15</u>	<u>10</u>	<u>9</u>	<u>10</u>
P 5		<u>12</u>	<u>12</u>	<u>20</u>	<u>10</u>	<u>12</u>	<u>10</u>
P 6		<u>15</u>	<u>13</u>	<u>25</u>	<u>10</u>	<u>15</u>	<u>10</u>
P 7		<u>18</u>	<u>15</u>	<u>30</u>	<u>10</u>	<u>18</u>	<u>10</u>
P 8		<u>21</u>	<u>19</u>			<u>21</u>	<u>10</u>
P 9		<u>24</u>	<u>22</u>			<u>24</u>	<u>10</u>
P10		<u>27</u>	<u>24</u>			<u>27</u>	<u>11</u>
P11		<u>30</u>	<u>26</u>			<u>30</u>	<u>12</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1947	1900	PSI
(B) First Initial Flow Pressure	10	7	PSI
(C) First Final Flow Pressure	10	9	PSI
(D) Initial Closed-in Pressure	21	26	PSI
(E) Second Initial Flow Pressure	10	9	PSI
(F) Second Final Flow Pressure	10	10	PSI
(G) Final Closed-in Pressure	10	12	PSI
(H) Final Hydrostatic Mud	1821	1849	PSI