

WESTERN TESTING CO., INC.
Pressure Data

Date 9-7-80

Test Ticket No. 7223

Recorder No. 6234

Capacity 4500

Location 3575 Ft.

Clock No. _____ Elevation 1908 Kelly Bushing

Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1905	P.S.I.	3:20 A	M
B First Initial Flow Pressure	62	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	55	P.S.I.	30	Mins. 24 Mins.
D Initial Closed-in Pressure	78	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	76	P.S.I.	45	Mins. 39 Mins.
F Second Final Flow Pressure	78	P.S.I.		
G Final Closed-in Pressure	106	P.S.I.		
H Final Hydrostatic Mud	1886	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

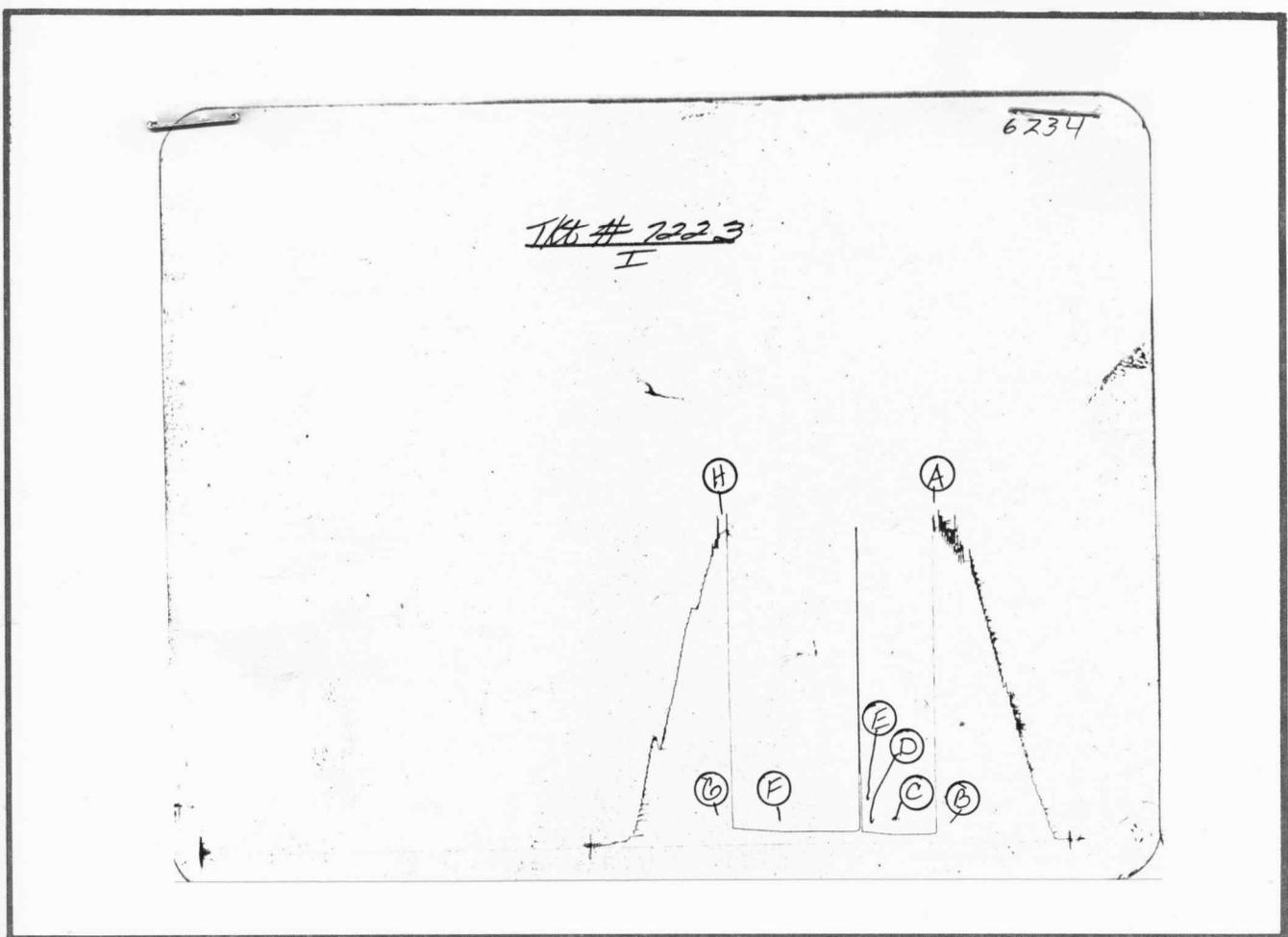
Initial Shut-In
Breakdown: 8 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>62</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>78</u>
P 2 <u>5</u>	<u>59</u>	<u>3</u>	<u>55</u>	<u>5</u>	<u>78</u>	<u>3</u>	<u>80</u>
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>60</u>	<u>10</u>	<u>78</u>	<u>6</u>	<u>82</u>
P 4 <u>15</u>	<u>57</u>	<u>9</u>	<u>63</u>	<u>15</u>	<u>78</u>	<u>9</u>	<u>84</u>
P 5 <u>20</u>	<u>56</u>	<u>12</u>	<u>66</u>	<u>20</u>	<u>78</u>	<u>12</u>	<u>86</u>
P 6 <u>25</u>	<u>55</u>	<u>15</u>	<u>69</u>	<u>25</u>	<u>78</u>	<u>15</u>	<u>87</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>72</u>	<u>30</u>	<u>78</u>	<u>18</u>	<u>90</u>
P 8 _____	_____	<u>21</u>	<u>75</u>	<u>35</u>	<u>78</u>	<u>21</u>	<u>93</u>
P 9 _____	_____	<u>24</u>	<u>78</u>	<u>40</u>	<u>78</u>	<u>24</u>	<u>96</u>
P10 _____	_____	_____	_____	<u>45</u>	<u>78</u>	<u>27</u>	<u>99</u>
P11 _____	_____	_____	_____	<u>50</u>	<u>78</u>	<u>30</u>	<u>101</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>78</u>	<u>33</u>	<u>103</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>78</u>	<u>36</u>	<u>105</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>106</u>
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

Flushed tool



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1916	1905	PSI
(B) First Initial Flow Pressure	45	62	PSI
(C) First Final Flow Pressure	45	55	PSI
(D) Initial Closed-in Pressure	80	78	PSI
(E) Second Initial Flow Pressure	80	76	PSI
(F) Second Final Flow Pressure	80	78	PSI
(G) Final Closed-in Pressure	103	106	PSI
(H) Final Hydrostatic Mud	1904	1886	PSI



Home Office: Wichita, Kansas 67201
 P.O. Box 1599 (316) 262-5861

Company J A Allison Lease & Well No. Cline Estate #4
 Elevation 1908 Kelly Bushing Location Kansas City Effective Pay - Ft. Ticket No. 7224
 Date 9-7-80 Sec. 25 Twp. 24S Range 13W County Stafford State Kansas
 Test Approved by Robert E McCann Western Representative Dan Delaney

Formation Test No. 2 Interval Tested from 3621 ft. to 3641 ft. Total Depth 3641 ft.
 Packer Depth 3621 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3616 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3632 ft. Recorder Number 6234 Cap. 4500
 Bottom Recorder Depth (Outside) 3635 ft. Recorder Number 4339 Cap. 4300
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman & Iannitti Rig #3 Drill Collar Length - I. D. - in.
 Mud Type Impermex Viscosity 44 Weight Pipe Length 382 I. D. 2.7 in.
 Weight 9.9 Water Loss 12.6 cc. Drill Pipe Length 3218 I. D. 3.8 in.
 Chlorides 94,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 20 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: Initial flow period - weak increasing to a fair blow. Final flow period - fair blow throughout.

Recovered 10 ft. of oil cut mud
 Recovered 60 ft. of oil cut watery mud
 Recovered 120 ft. of slightly oil cut muddy water
 Recovered 50 ft. of gas in pipe
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:55 ~~A.M.~~ P.M. Time Started Off Bottom 9:45 ~~A.M.~~ P.M. Maximum Temperature 109
 Initial Hydrostatic Pressure (A) 1930 P.S.I.
 Initial Flow Period Minutes 25 (B) 57 P.S.I. to (C) 69 P.S.I.
 Initial Closed In Period Minutes 30 (D) 626 P.S.I.
 Final Flow Period Minutes 55 (E) 94 P.S.I. to (F) 112 P.S.I.
 Final Closed In Period Minutes 45 (G) 631 P.S.I.
 Final Hydrostatic Pressure (H) 1914 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-7-80

Test Ticket No. 7224

Recorder No. 6234

Capacity 4500

Location 3632 Ft.

Clock No. -----

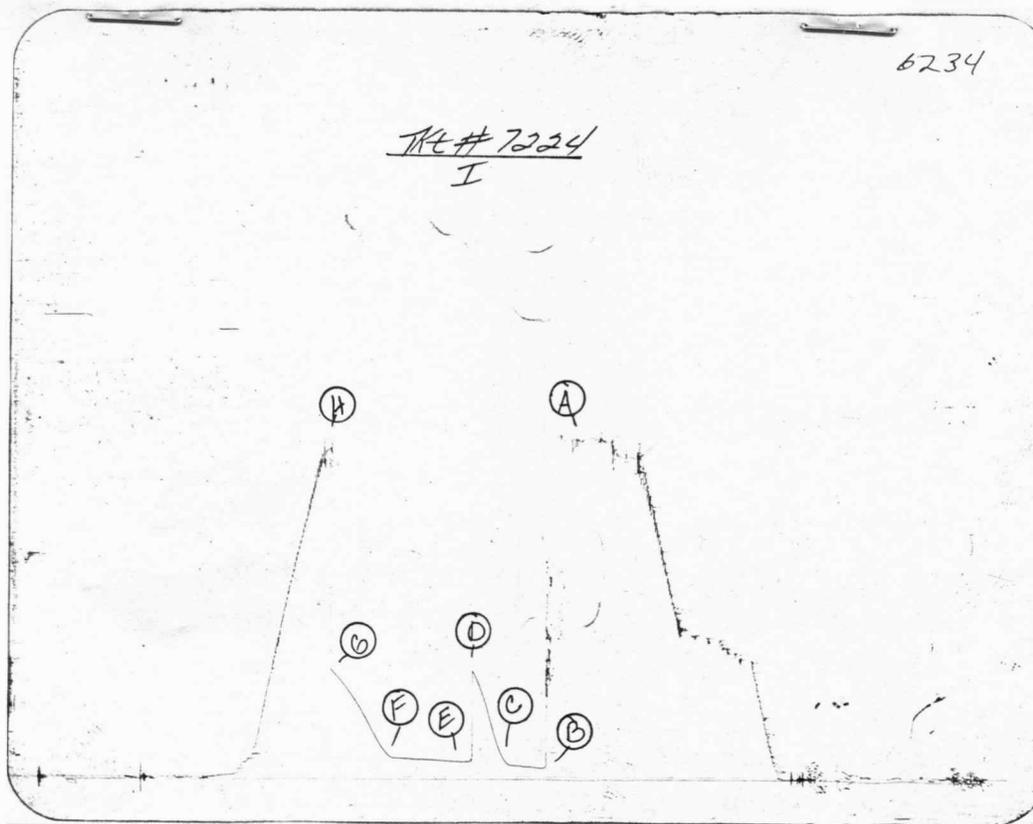
Elevation 1908 Kelly Bushing

Well Temperature 109 °F

Point	Pressure			Time	
				Given	Computed
A Initial Hydrostatic Mud	1930	P.S.I.	Open Tool	6:55	P M
B First Initial Flow Pressure	57	P.S.I.	First Flow Pressure	30	Mins. 25 Mins.
C First Final Flow Pressure	69	P.S.I.	Initial Closed-in Pressure	30	Mins. 30 Mins.
D Initial Closed-in Pressure	626	P.S.I.	Second Flow Pressure	60	Mins. 55 Mins.
E Second Initial Flow Pressure	94	P.S.I.	Final Closed-in Pressure	45	Mins. 45 Mins.
F Second Final Flow Pressure	112	P.S.I.			
G Final Closed-in Pressure	631	P.S.I.			
H Final Hydrostatic Mud	1914	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
P 1	5	0	10	0	11	0	15	0
P 2	5	57	3	69	5	94	3	112
P 3	5	55	3	85	5	92	3	128
P 4	10	60	6	110	10	94	6	156
P 5	15	62	9	154	15	96	9	186
P 6	20	64	12	220	20	99	12	227
P 7	25	69	15	310	25	102	15	271
P 8			18	388	30	106	18	317
P 9			21	466	35	106	21	360
P 10			24	527	40	106	24	404
P 11			27	583	45	108	27	445
P 12			30	626	50	110	30	479
P 13					55	112	33	511
P 14							36	547
P 15							39	577
P 16							42	601
P 17							45	631
P 18								
P 19								
P 20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1927	1930	PSI
(B) First Initial Flow Pressure	45	57	PSI
(C) First Final Flow Pressure	68	69	PSI
(D) Initial Closed-in Pressure	617	626	PSI
(E) Second Initial Flow Pressure	80	94	PSI
(F) Second Final Flow Pressure	114	112	PSI
(G) Final Closed-in Pressure	639	631	PSI
(H) Final Hydrostatic Mud	1916	1914	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company J A Allison Lease & Well No. Cline Estate #4
 Elevation 1908 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 7225
 Date 9-8-80 Sec. 25 Twp. 24S Range 13W County Stafford State Kansas
 Test Approved by Robert E McCann Western Representative Dan Delaney

Formation Test No. 3 Interval Tested from 3685 ft. to 3705 ft. Total Depth 3705 ft.

Packer Depth 3685 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3680 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3696 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3699 ft. Recorder Number 4339 Cap. 4300

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman & Iannitti Rig #3 Drill Collar Length - I. D. - in.

Mud Type Impermix Viscosity 42 Weight Pipe Length 382 I. D. 2.7 in.

Weight 10.1 Water Loss 19.6 cc. Drill Pipe Length 3282 I. D. 3.8 in.

Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make - Serial Number - Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: Initial flow period weak blow throughout. Final flow period - fair blow throughout.

Recovered 220 ft. of Gas in pipe

Recovered 20 ft. of slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:10 ~~AM~~ P.M. Time Started Off Bottom 10:10 ~~AM~~ P.M. Maximum Temperature 109

Initial Hydrostatic Pressure (A) 2005 P.S.I.

Initial Flow Period Minutes 30 (B) 37 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period Minutes 27 (D) 57 P.S.I.

Final Flow Period Minutes 60 (E) 37 P.S.I. to (F) 34 P.S.I.

Final Closed In Period Minutes 57 (G) 80 P.S.I.

Final Hydrostatic Pressure (H) 1941 P.S.I.

WESTERN TESTING CO., INC.

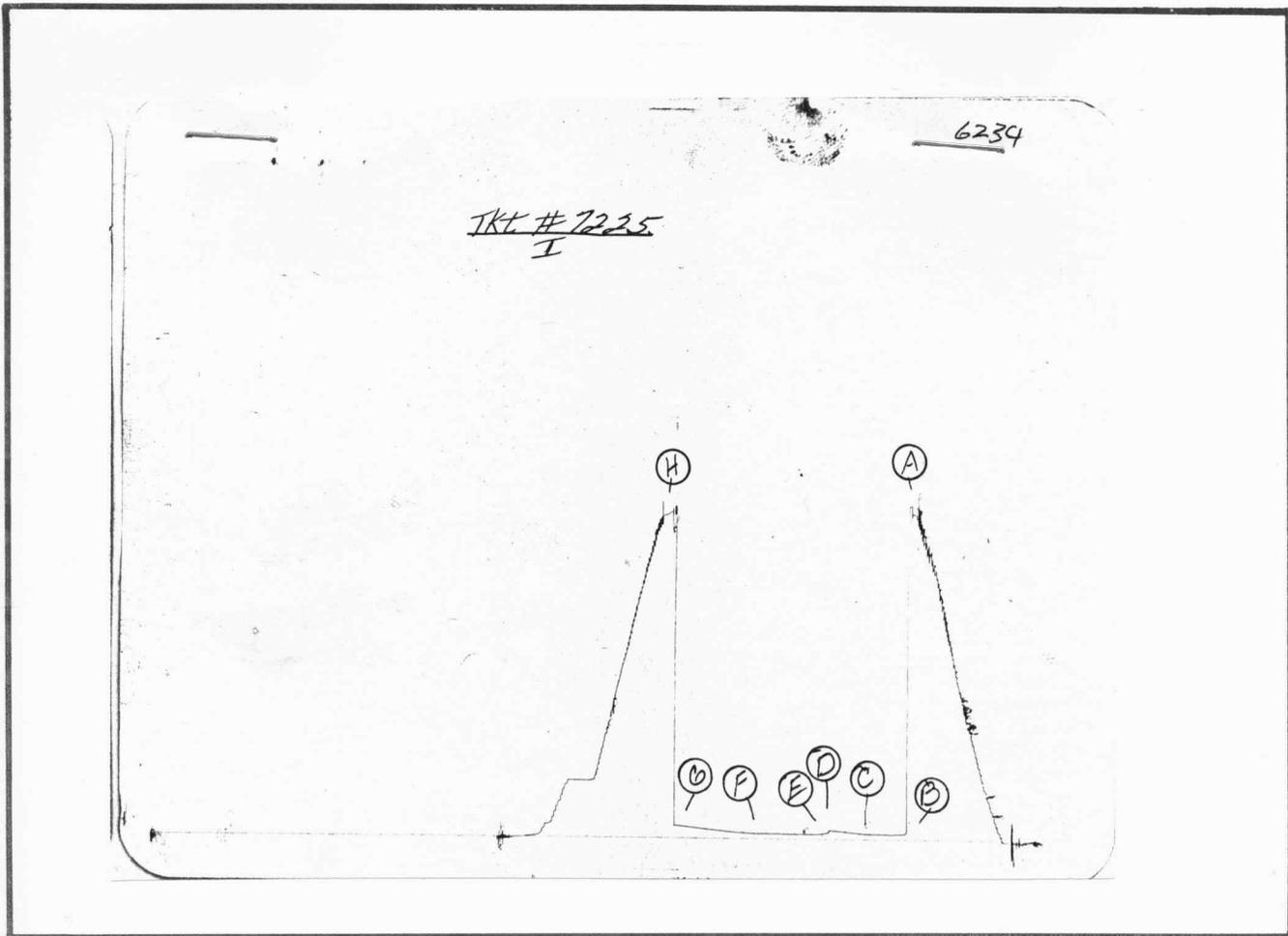
Pressure Data

Date 9-8-80 Test Ticket No. 7225
 Recorder No. 6234 Capacity 4500 Location 3696 Ft.
 Clock No. ----- Elevation 1908 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2005	P.S.I.	7:10 P _M	
B First Initial Flow Pressure	37	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	34	P.S.I.	30 Mins.	27 Mins.
D Initial Closed-in Pressure	57	P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	37	P.S.I.	60 Mins.	57 Mins.
F Second Final Flow Pressure	34	P.S.I.		
G Final Closed-in Pressure	80	P.S.I.		
H Final Hydrostatic Mud	1941	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>37</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>34</u>	
P 2 <u>5</u>	<u>37</u>	<u>3</u>	<u>39</u>	<u>5</u>	<u>32</u>	<u>3</u>	<u>37</u>	
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>41</u>	<u>10</u>	<u>32</u>	<u>6</u>	<u>39</u>	
P 4 <u>15</u>	<u>34</u>	<u>9</u>	<u>44</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>41</u>	
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>46</u>	<u>20</u>	<u>32</u>	<u>12</u>	<u>44</u>	
P 6 <u>25</u>	<u>34</u>	<u>15</u>	<u>48</u>	<u>25</u>	<u>32</u>	<u>15</u>	<u>46</u>	
P 7 <u>30</u>	<u>34</u>	<u>18</u>	<u>50</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>46</u>	
P 8 _____	_____	<u>21</u>	<u>53</u>	<u>35</u>	<u>32</u>	<u>21</u>	<u>48</u>	
P 9 _____	_____	<u>24</u>	<u>55</u>	<u>40</u>	<u>32</u>	<u>24</u>	<u>52</u>	
P10 _____	_____	<u>27</u>	<u>57</u>	<u>45</u>	<u>32</u>	<u>27</u>	<u>55</u>	
P11 _____	_____	_____	_____	<u>50</u>	<u>32</u>	<u>30</u>	<u>57</u>	
P12 _____	_____	_____	_____	<u>55</u>	<u>32</u>	<u>33</u>	<u>60</u>	
P13 _____	_____	_____	_____	<u>60</u>	<u>34</u>	<u>36</u>	<u>62</u>	
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>64</u>	
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>67</u>	
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>70</u>	
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>73</u>	
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>76</u>	
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>78</u>	
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>80</u>	



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1950	2005	PSI
(B) First Initial Flow Pressure	34	37	PSI
(C) First Final Flow Pressure	34	34	PSI
(D) Initial Closed-in Pressure	45	57	PSI
(E) Second Initial Flow Pressure	34	37	PSI
(F) Second Final Flow Pressure	34	34	PSI
(G) Final Closed-in Pressure	80	80	PSI
(H) Final Hydrostatic Mud	1927	1941	PSI



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 P.O. Box 1599 (316) 262-5861

Company J A Allison Lease & Well No. Cline Estate #4
 Elevation 1908 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 7301
 Date 9-9-80 Sec. 25 Twp. 24S Range 13W County Stafford State Kansas
 Test Approved by Robert E McCann Western Representative Dan Delaney

Formation Test No. 4 Interval Tested from 3704 ft. to 3730 ft. Total Depth 3730 ft.
 Packer Depth 3704 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3699 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set 2

Top Recorder Depth (Inside) 3716 ft. Recorder Number 6234 Cap 4500
 Bottom Recorder Depth (Outside) 3719 ft. Recorder Number 4339 Cap 4300
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Woodman & Iannitti Rig #3 Drill Collar Length - I. D. - in.
 Mud Type Impermix Viscosity 45 Weight Pipe Length 382 I. D. 2.7 in.
 Weight 10.0 Water Loss 13.6 cc. Drill Pipe Length 3301 I. D. 3.8 in.
 Chlorides 68,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 26 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: Initial flow period- weak blow, building to strong. Final flow period - good to a strong blow.

Recovered 160 ft. of gas in pipe
 Recovered 80 ft. of medium to heavily oil & gas cut mud
 Recovered 60 ft. of medium to heavily oil & gas cut watery mud
 Recovered 60 ft. of slightly oil cut muddy water
 Recovered ft. of

Remarks:

Time Set Packer(s) 11:45 ~~A.M.~~ PM Time Started Off Bottom 2:30 ~~A.M.~~ PM Maximum Temperature 110
 Initial Hydrostatic Pressure (A) 1991 P.S.I.
 Initial Flow Period Minutes 30 (B) 57 P.S.I. to (C) 60 P.S.I.
 Initial Closed In Period Minutes 30 (D) 597 P.S.I.
 Final Flow Period Minutes 60 (E) 85 P.S.I. to (F) 101 P.S.I.
 Final Closed In Period Minutes 42 (G) 651 P.S.I.
 Final Hydrostatic Pressure (H) 1984 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-9-80

Test Ticket No. 7301

Recorder No. 6234

Capacity 4500

Location 3716 Ft.

Clock No. ---- Elevation 1908 Kelly Bushing

Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1991</u> P.S.I.	Open Tool	<u>11:45AM</u>	
B First Initial Flow Pressure	<u>57</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>60</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>597</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>85</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>101</u> P.S.I.			
G Final Closed-in Pressure	<u>651</u> P.S.I.			
H Final Hydrostatic Mud	<u>1984</u> P.S.I.			

PRESSURE BREAKDOWN

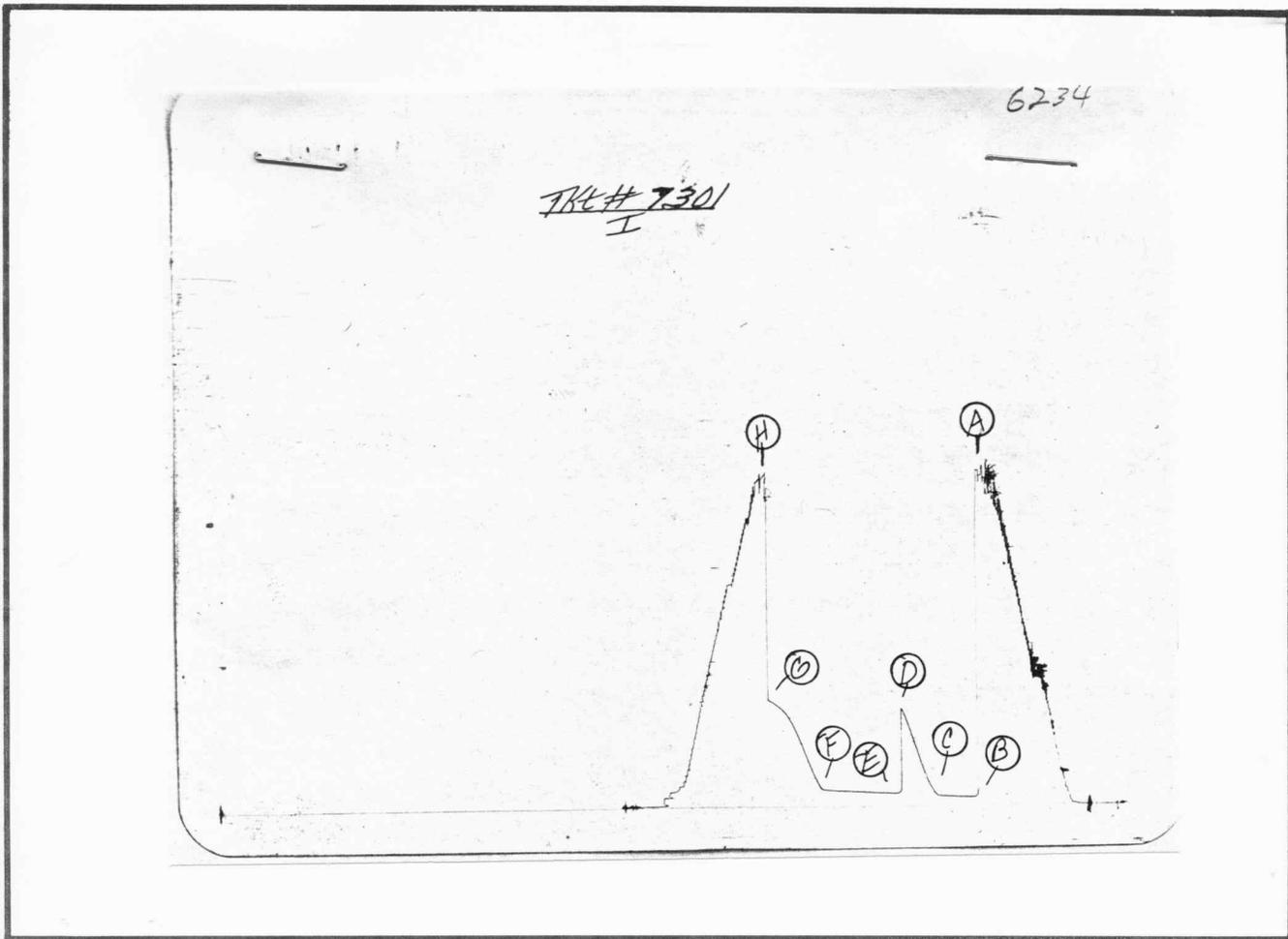
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>57</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>101</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>87</u>	<u>5</u>	<u>80</u>	<u>3</u>	<u>133</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>124</u>	<u>10</u>	<u>80</u>	<u>6</u>	<u>181</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>174</u>	<u>15</u>	<u>83</u>	<u>9</u>	<u>239</u>
P 5 <u>20</u>	<u>57</u>	<u>12</u>	<u>241</u>	<u>20</u>	<u>86</u>	<u>12</u>	<u>296</u>
P 6 <u>25</u>	<u>60</u>	<u>15</u>	<u>305</u>	<u>25</u>	<u>89</u>	<u>15</u>	<u>353</u>
P 7 <u>30</u>	<u>60</u>	<u>18</u>	<u>378</u>	<u>30</u>	<u>92</u>	<u>18</u>	<u>417</u>
P 8 _____	_____	<u>21</u>	<u>450</u>	<u>35</u>	<u>94</u>	<u>21</u>	<u>470</u>
P 9 _____	_____	<u>24</u>	<u>523</u>	<u>40</u>	<u>96</u>	<u>24</u>	<u>516</u>
P10 _____	_____	<u>27</u>	<u>579</u>	<u>45</u>	<u>96</u>	<u>27</u>	<u>556</u>
P11 _____	_____	<u>30</u>	<u>597</u>	<u>50</u>	<u>96</u>	<u>30</u>	<u>583</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>99</u>	<u>33</u>	<u>608</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>101</u>	<u>36</u>	<u>626</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>640</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>651</u>
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2018	1991	PSI
(B) First Initial Flow Pressure	45	57	PSI
(C) First Final Flow Pressure	57	60	PSI
(D) Initial Closed-in Pressure	594	597	PSI
(E) Second Initial Flow Pressure	80	85	PSI
(F) Second Final Flow Pressure	103	101	PSI
(G) Final Closed-in Pressure	650	651	PSI
(H) Final Hydrostatic Mud	1995	1984	PSI



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company J A Allison Lease & Well No. Cline Estate #4
Elevation 1908 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 7302
Date 9-10-80 Sec. 25 Twp. 24S Range 13W County Stafford State Kansas
Test Approved by Robert E McCann Western Representative Dan Delaney

Formation Test No. 5 Interval Tested from 3793 ft. to 3820 ft. Total Depth 3820 ft.
Packer Depth 3793 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3788 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3805 ft. Recorder Number 6234 Cap. 4500
Bottom Recorder Depth (Outside) 3808 ft. Recorder Number 4339 Cap. 4300
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman-Iannitti #3 Drill Collar Length - I. D. - in.
Mud Type Impermix Viscosity 54 Weight Pipe Length 382 I. D. 2.7 in.
Weight 10.1 Water Loss 8.6 cc. Drill Pipe Length 3390 I. D. 3.8 in.
Chlorides 67,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 27 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X in.

Blow: Initial flow period - weak blow. Final flow period - weak blow

Recovered 40 ft. of gas in pipe
Recovered 20 ft. of very slightly oil cut thin mud
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 1:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 110
Initial Hydrostatic Pressure (A) 2029 P.S.I.
Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 46 P.S.I.
Initial Closed In Period Minutes 27 (D) 119 P.S.I.
Final Flow Period Minutes 60 (E) 53 P.S.I. to (F) 53 P.S.I.
Final Closed In Period Minutes 45 (G) 161 P.S.I.
Final Hydrostatic Pressure (H) 1991 P.S.I.

WESTERN TESTING CO., INC.

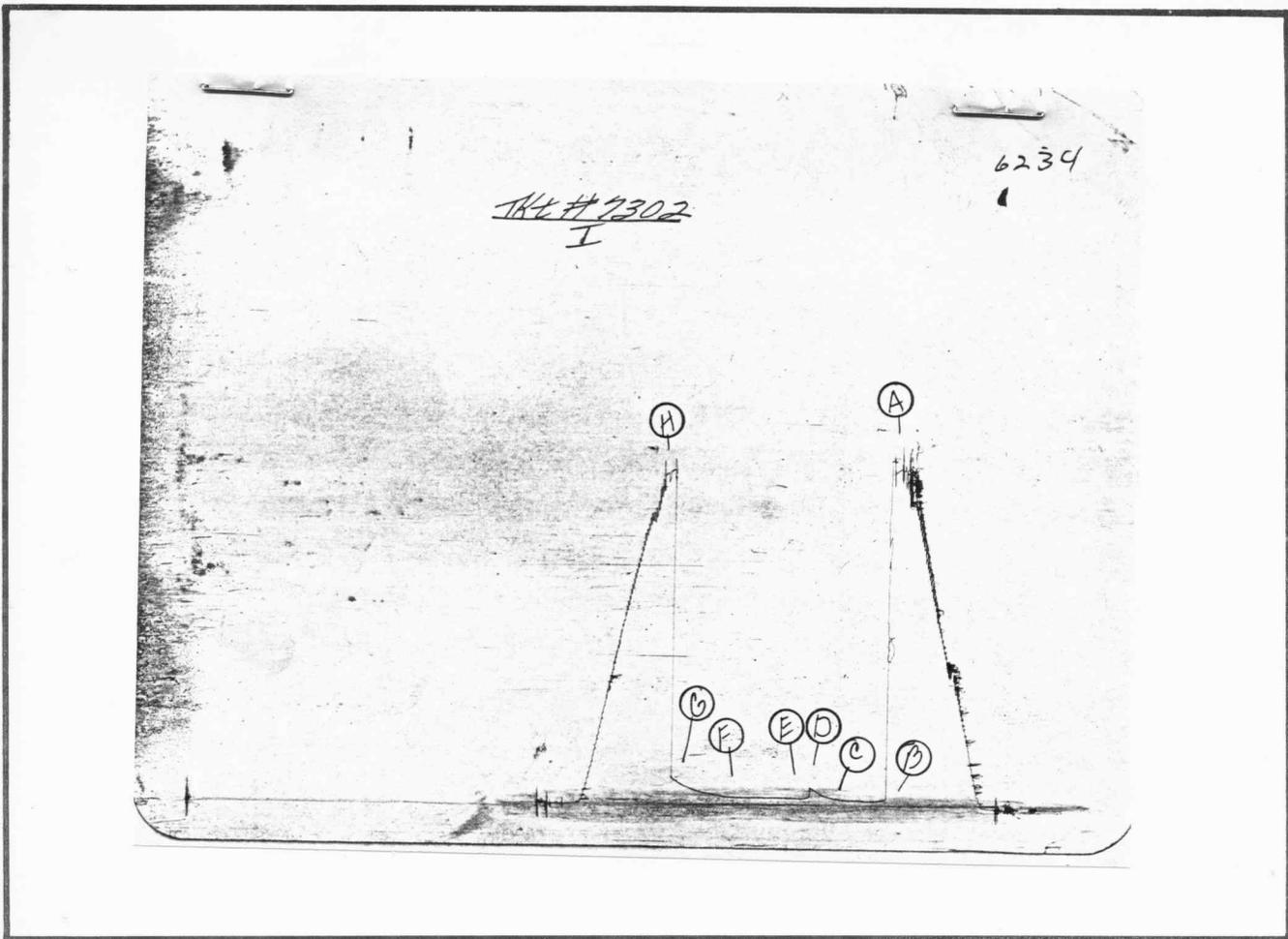
Pressure Data

Date 9-10-80 Test Ticket No. 7302
 Recorder No. 6234 Capacity 4500 Location 3805 Ft.
 Clock No. ----- Elevation 1908 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2029</u> P.S.I.	Open Tool	<u>1:30</u> P M	
B First Initial Flow Pressure	<u>46</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins
C First Final Flow Pressure	<u>46</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>27</u> Mins
D Initial Closed-in Pressure	<u>119</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins
E Second Initial Flow Pressure	<u>53</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins	<u>45</u> Mins
F Second Final Flow Pressure	<u>53</u> P.S.I.			
G Final Closed-in Pressure	<u>161</u> P.S.I.			
H Final Hydrostatic Mud	<u>1991</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>53</u>	
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>55</u>	
P 3 <u>10</u>	<u>37</u>	<u>6</u>	<u>48</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>57</u>	
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>50</u>	<u>15</u>	<u>53</u>	<u>9</u>	<u>62</u>	
P 5 <u>20</u>	<u>44</u>	<u>12</u>	<u>57</u>	<u>20</u>	<u>53</u>	<u>12</u>	<u>67</u>	
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>64</u>	<u>25</u>	<u>53</u>	<u>15</u>	<u>73</u>	
P 7 <u>30</u>		<u>18</u>	<u>73</u>	<u>30</u>	<u>53</u>	<u>18</u>	<u>78</u>	
P 8		<u>21</u>	<u>89</u>	<u>35</u>	<u>53</u>	<u>21</u>	<u>80</u>	
P 9		<u>24</u>	<u>103</u>	<u>40</u>	<u>53</u>	<u>24</u>	<u>85</u>	
P10		<u>27</u>	<u>119</u>	<u>45</u>	<u>53</u>	<u>27</u>	<u>92</u>	
P11				<u>50</u>	<u>53</u>	<u>30</u>	<u>101</u>	
P12				<u>55</u>	<u>53</u>	<u>33</u>	<u>110</u>	
P13				<u>60</u>	<u>53</u>	<u>36</u>	<u>117</u>	
P14						<u>39</u>	<u>131</u>	
P15						<u>42</u>	<u>142</u>	
P16						<u>45</u>	<u>161</u>	
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1930	2029	PSI
(B) First Initial Flow Pressure	45	46	PSI
(C) First Final Flow Pressure	45	46	PSI
(D) Initial Closed-in Pressure	126	119	PSI
(E) Second Initial Flow Pressure	57	53	PSI
(F) Second Final Flow Pressure	57	53	PSI
(G) Final Closed-in Pressure	160	161	PSI
(H) Final Hydrostatic Mud	1916	1991	PSI