



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Messman-Rinehart Corporation Lease & Well No. #3 West
Elevation 1871 KellyBushing Formation Toronto Effective Pay -- Ft. Ticket No. 18514
Date 3/15/83 Sec. 24 Twp 19S Range 14W County Barton State Kansas
Test Approved by J. G. Klein Western Representative Dan Delaney
Formation Test No. 1 Interval Tested from 3094 ft. to 3160 ft. Total Depth 3160 ft.
Packer Depth 3094 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3089 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3097 ft. Recorder Number 10980 Cap 4200
Bottom Recorder Depth (Outside) 3101 ft. Recorder Number 6077 Cap 4700
Below Straddle Recorder Depth - ft. Recorder Number - Cap -
Drilling Contractor Woodman-Iannitti Drlg. Rig #2 Drill Collar Length - I. D. - in.
Mud Type starch,salt,clay viscosity 42 Weight Pipe Length 347 I. D. 2.7 in.
Weight 9.5 Water Loss N/C cc. Drill Pipe Length 2726 I. D. 3.8 in.
Chlorides 62,000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2 in.
Jars: Make - Serial Number - Anchor Length 66 ft. Size 5-1/2 in.
Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Very weak blow throughout test.

Recovered 20 ft. of oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 100°
Initial Hydrostatic Pressure (A) 1613 P.S.I.
Initial Flow Period Minutes 30 (B) 53 P.S.I. to (C) 53 P.S.I.
Initial Closed In Period Minutes 30 (D) 600 P.S.I.
Final Flow Period Minutes 75 (E) 61 P.S.I. to (F) 66 P.S.I.
Final Closed In Period Minutes 60 (G) 759 P.S.I.
Final Hydrostatic Pressure (H) 1613 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3/15/83 Test Ticket No. 18514
 Recorder No. 10980 Capacity 4200 Location 3097 Ft.
 Clock No. -- Elevation 1871 Kelly Bushing Well Temperature 100 °F

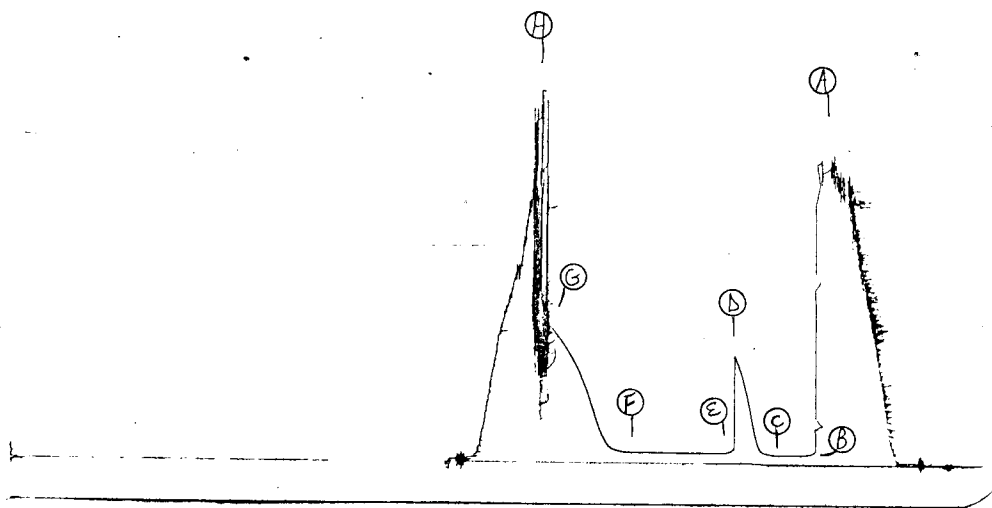
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1613 P.S.I.	5:00A	M
B First Initial Flow Pressure	53 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	53 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	600 P.S.I.	75 Mins.	75 Mins.
E Second Initial Flow Pressure	61 P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	66 P.S.I.		
G Final Closed-in Pressure	759 P.S.I.		
H Final Hydrostatic Mud	1613 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>15</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>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>53</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>66</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>55</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>66</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>60</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>68</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>67</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>71</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>94</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>76</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>170</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>84</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>279</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>105</u>
P 8		<u>21</u>	<u>384</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>139</u>
P 9		<u>24</u>	<u>472</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>187</u>
P10		<u>27</u>	<u>534</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>249</u>
P11		<u>30</u>	<u>600</u>	<u>50</u>	<u>62</u>	<u>30</u>	<u>319</u>
P12				<u>55</u>	<u>63</u>	<u>33</u>	<u>382</u>
P13				<u>60</u>	<u>64</u>	<u>36</u>	<u>439</u>
P14				<u>65</u>	<u>65</u>	<u>39</u>	<u>498</u>
P15				<u>70</u>	<u>66</u>	<u>42</u>	<u>543</u>
P16				<u>75</u>	<u>66</u>	<u>45</u>	<u>587</u>
P17						<u>48</u>	<u>624</u>
P18						<u>51</u>	<u>660</u>
P19						<u>54</u>	<u>692</u>
P20						<u>57</u>	<u>726</u>
						<u>60</u>	<u>759</u>

TKT # 18514

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1614	1613	PSI
(B) First Initial Flow Pressure	42	53	PSI
(C) First Final Flow Pressure	42	53	PSI
(D) Initial Closed-in Pressure	600	600	PSI
(E) Second Initial Flow Pressure	53	61	PSI
(F) Second Final Flow Pressure	53	66	PSI
(G) Final Closed-in Pressure	760	759	PSI
(H) Final Hydrostatic Mud	1604	1613	PSI



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Company Messman-Rinehart Corporation Lease & Well No. #3 West
Elevation 1871 Kelly Bushing Formation Lansing Effective Pay --- Ft. Ticket No. 18515
Date 3/16/83 Sec. 24 Twp. 19S Range 14W County Barton State Kansas
Test Approved by J. G. Klein Western Representative Dan Delaney
Formation Test No. 2 Interval Tested from 3340 ft. to 3392 ft. Total Depth 3392 ft.
Packer Depth 3340 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3335 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3344 ft. Recorder Number 10980 Cap. 4200
Bottom Recorder Depth (Outside) 3348 ft. Recorder Number 6077 Cap. 4700
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman-Iannitti Drlg. Rig #2 Drill Collar Length -- I. D. - in.
Mud Type starch Viscosity 41 Weight Pipe Length 347 I. D. 2.7 in.
Weight 9.8 Water Loss 12.0 cc. Drill Pipe Length 2972 I. D. 3.8 in.
Chlorides 62,000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2 in.
Jars: Make - Serial Number - Anchor Length 52 ft. Size 5 1/2 in.
Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow ;building to a strong blow in twenty-six minutes. Strong blow on final flow period.

Recovered 300 ft. of gas in pipe
Recovered 30 ft. of 19% mud;21% water;12% oil;48% gas
Recovered 30 ft. of 29% mud;31% water;15% oil;25% gas
Recovered 60 ft. of 70% mud;11% water; 8% oil;11% gas
Recovered ft. of

Remarks:

Time Set Packer(s)	<u>11:10</u>	<u>A.M.</u> <u>==P.M.</u>	Time Started Off Bottom	<u>2:10</u>	<u>A.M.</u> <u>==P.M.</u>	Maximum Temperature	<u>104°</u>
Initial Hydrostatic Pressure			(A)	<u>1837</u>	P.S.I.		
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>56</u>	P.S.I. to (C)	<u>60</u>	P.S.I.
Initial Closed In Period	Minutes	<u>30</u>	(D)	<u>879</u>	P.S.I.		
Final Flow Period	Minutes	<u>60</u>	(E)	<u>78</u>	P.S.I. to (F)	<u>86</u>	P.S.I.
Final Closed In Period	Minutes	<u>60</u>	(G)	<u>880</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>1779</u>	P.S.I.		

WESTERN TESTING CO., INC.

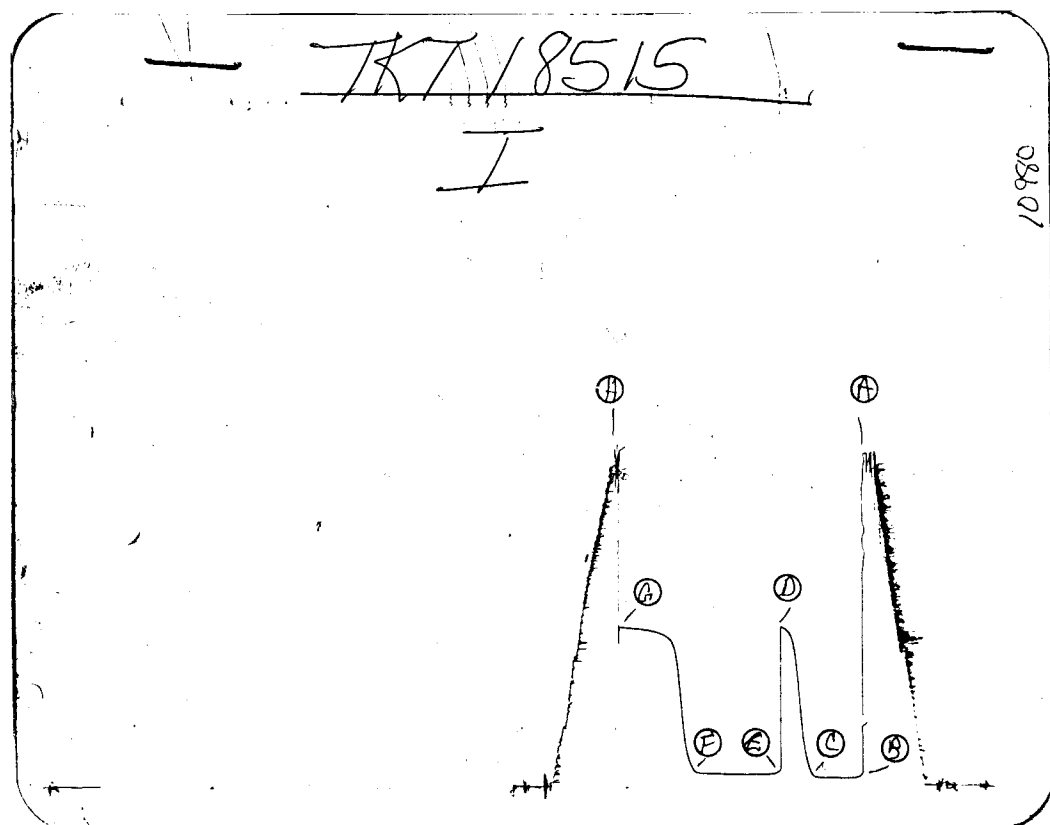
Pressure Data

Date 3/16/83 Test Ticket No. 18515
 Recorder No. 10980 Capacity 4200 Location 3344 Ft.
 Clock No. --- Elevation 1871 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1837</u> P.S.I.	Open Tool	<u>11:10A</u> M	
B First Initial Flow Pressure	<u>56</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>879</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>78</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>86</u> P.S.I.			
G Final Closed-in Pressure	<u>880</u> P.S.I.			
H Final Hydrostatic Mud	<u>1779</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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>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>56</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>86</u>
P 2 <u>5</u>	<u>56</u>	<u>3</u>	<u>60</u>	<u>5</u>	<u>78</u>	<u>3</u>	<u>113</u>
P 3 <u>10</u>	<u>57</u>	<u>6</u>	<u>68</u>	<u>10</u>	<u>78</u>	<u>6</u>	<u>162</u>
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>118</u>	<u>15</u>	<u>78</u>	<u>9</u>	<u>269</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>220</u>	<u>20</u>	<u>78</u>	<u>12</u>	<u>487</u>
P 6 <u>25</u>	<u>60</u>	<u>15</u>	<u>397</u>	<u>25</u>	<u>78</u>	<u>15</u>	<u>692</u>
P 7 <u>30</u>	<u>60</u>	<u>18</u>	<u>628</u>	<u>30</u>	<u>78</u>	<u>18</u>	<u>790</u>
P 8 _____		<u>21</u>	<u>790</u>	<u>35</u>	<u>79</u>	<u>21</u>	<u>820</u>
P 9 _____		<u>24</u>	<u>846</u>	<u>40</u>	<u>80</u>	<u>24</u>	<u>834</u>
P10 _____		<u>27</u>	<u>870</u>	<u>45</u>	<u>82</u>	<u>27</u>	<u>843</u>
P11 _____		<u>30</u>	<u>879</u>	<u>50</u>	<u>84</u>	<u>30</u>	<u>852</u>
P12 _____				<u>55</u>	<u>85</u>	<u>33</u>	<u>858</u>
P13 _____				<u>60</u>	<u>86</u>	<u>36</u>	<u>864</u>
P14 _____						<u>39</u>	<u>867</u>
P15 _____						<u>42</u>	<u>871</u>
P16 _____						<u>45</u>	<u>873</u>
P17 _____						<u>48</u>	<u>875</u>
P18 _____						<u>51</u>	<u>877</u>
P19 _____						<u>54</u>	<u>878</u>
P20 _____						<u>57</u>	<u>879</u>
						<u>60</u>	<u>880</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1827	1837	PSI
(B) First Initial Flow Pressure	42	56	PSI
(C) First Final Flow Pressure	53	60	PSI
(D) Initial Closed-in Pressure	888	879	PSI
(E) Second Initial Flow Pressure	75	78	PSI
(F) Second Final Flow Pressure	85	86	PSI
(G) Final Closed-in Pressure	878	880	PSI
(H) Final Hydrostatic Mud	1817	1779	PSI



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Company Messman-Rinehart Corporation Lease & Well No. #3 West
Elevation 1871 Kelly Bumping Formation Arbuckle Effective Pay --- Ft. Ticket No. 18516
Date 3/ 17 /83 Sec. 24 Twp. 19S Range 14W County Barton State Kansas
Test Approved by J. G. Klein Western Representative Dan Delaney
Formation Test No. 3 Interval Tested from 3432 ft. to 3490 ft. Total Depth 3490 ft.
Packer Depth 3432 ft. Size 6 5/8 in. Packer Depth --- ft. Size --- in.
Packer Depth 3427 ft. Size 6 5/8 in. Packer Depth ---- ft. Size ---- in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3435 ft. Recorder Number 10980 Cap. 4200
Bottom Recorder Depth (Outside) 3439 ft. Recorder Number 6077 Cap. 4700
Below Straddle Recorder Depth ---- ft. Recorder Number --- Cap. --
Drilling Contractor Woodman-Iannitti Drlg. Rig #2 Drill Collar Length --- I. D. -- in.
Mud Type starch Viscosity 52 Weight Pipe Length 347 I. D. 2.7 in.
Weight 9.7 Water Loss 12.8 cc. Drill Pipe Length 3064 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2 in.
Jars: Make --- Serial Number ---- Anchor Length 58 ft. Size 5 1/2 in.
Did Well Flow? ---- Reversed Out --- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow on initial flow period. No blow on final flow period.

Recovered 10 ft. of oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:50 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:20 ~~P.M.~~ ^{A.M.} Maximum Temperature 106°
Initial Hydrostatic Pressure (A) 1909 P.S.I.
Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 46 P.S.I.
Initial Closed In Period Minutes 30 (D) 208 P.S.I.
Final Flow Period Minutes 30 (E) 55 P.S.I. to (F) 55 P.S.I.
Final Closed In Period Minutes 60 (G) 422 P.S.I.
Final Hydrostatic Pressure (H) 1877 P.S.I.

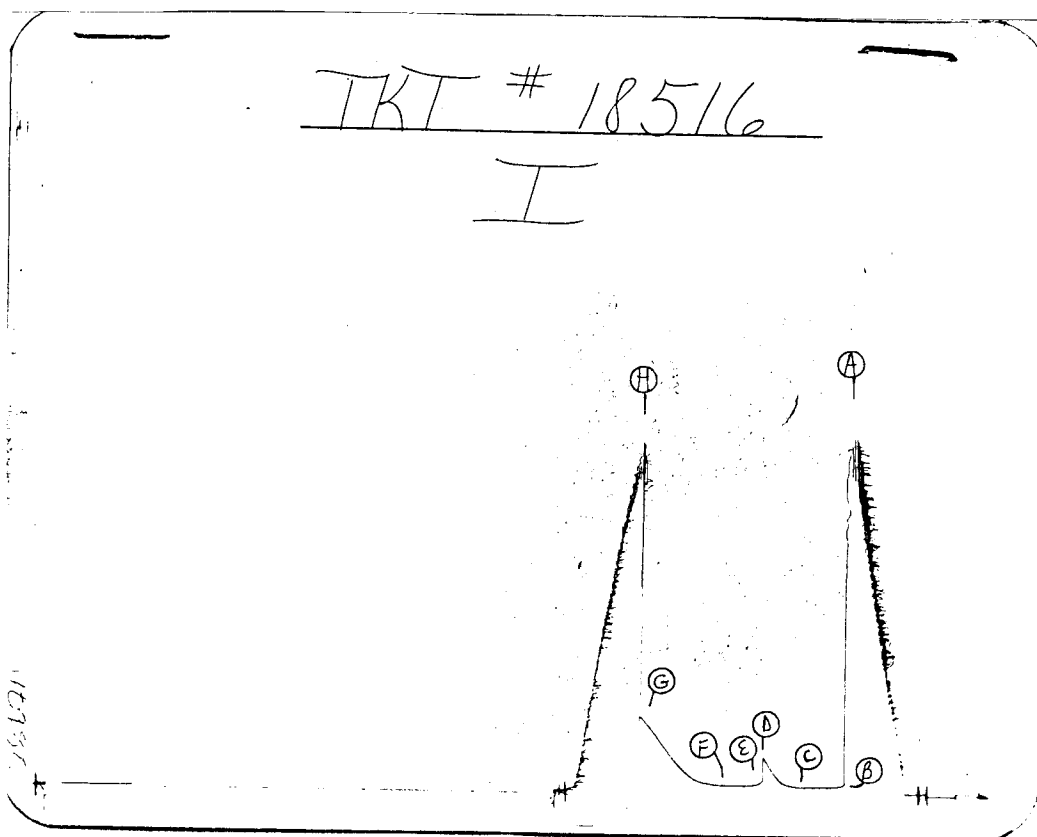
WESTERN TESTING CO., INC.

Pressure Data

Date 3/17/83 Test Ticket No. 1 8516
 Recorder No. 10980 Capacity 4200 Location 3435 Ft.
 Clock No. --- Elevation 1871 Kelly Bushing Well Temperature 106 °F
 Point Pressure Time Given Time Computed
 A. Initial Hydrostatic Mud 1909 P.S.I. Open Tool 10:50A M
 B First Initial Flow Pressure 46 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 46 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 208 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 E Second Initial Flow Pressure 55 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 55 P.S.I.
 G Final Closed-in Pressure 422 P.S.I.
 H Final Hydrostatic Mud 1877 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</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>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>46</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>55</u>
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>55</u>	<u>3</u>	<u>57</u>
P 3 <u>10</u>	<u>46</u>	<u>6</u>	<u>53</u>	<u>10</u>	<u>55</u>	<u>6</u>	<u>60</u>
P 4 <u>15</u>	<u>46</u>	<u>9</u>	<u>55</u>	<u>15</u>	<u>55</u>	<u>9</u>	<u>63</u>
P 5 <u>20</u>	<u>46</u>	<u>12</u>	<u>61</u>	<u>20</u>	<u>55</u>	<u>12</u>	<u>67</u>
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>72</u>	<u>25</u>	<u>55</u>	<u>15</u>	<u>72</u>
P 7 <u>30</u>	<u>46</u>	<u>18</u>	<u>94</u>	<u>30</u>	<u>55</u>	<u>18</u>	<u>81</u>
P 8		<u>21</u>	<u>117</u>			<u>21</u>	<u>91</u>
P 9		<u>24</u>	<u>150</u>			<u>24</u>	<u>106</u>
P10		<u>27</u>	<u>189</u>			<u>27</u>	<u>126</u>
P11		<u>30</u>	<u>208</u>			<u>30</u>	<u>146</u>
P12						<u>33</u>	<u>170</u>
P13						<u>36</u>	<u>193</u>
P14						<u>39</u>	<u>221</u>
P15						<u>42</u>	<u>251</u>
P16						<u>45</u>	<u>281</u>
P17						<u>48</u>	<u>309</u>
P18						<u>51</u>	<u>337</u>
P19						<u>54</u>	<u>367</u>
P20						<u>57</u>	<u>395</u>
						<u>60</u>	<u>422</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1912	1909	PSI
(B) First Initial Flow Pressure	53	46	PSI
(C) First Final Flow Pressure	53	46	PSI
(D) Initial Closed-in Pressure	214	208	PSI
(E) Second Initial Flow Pressure	53	55	PSI
(F) Second Final Flow Pressure	53	55	PSI
(G) Final Closed-in Pressure	429	422	PSI
(H) Final Hydrostatic Mud	1902	1877	PSI



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Company Messman-Rinehart Corporation Lease & Well No. #3 West
Elevation 1871 Kelly Bushing Formation Arbuckle Effective Pay --- Ft. Ticket No. 18517
Date 3/17/83 Sec. 24 Twp. 19S Range 14W County Barton State Kansas
Test Approved by J. G. Klein Western Representative Dan Delaney
Formation Test No. 4 Interval Tested from 3432 ft. to 3498 ft. Total Depth 3498 ft.
Packer Depth 3432 ft. Size 6 5/8 in. Packer Depth ----- ft. Size --- in.
Packer Depth 3427 ft. Size 6 5/8 in. Packer Depth ----- ft. Size --- in.
Depth of Selective Zone Set ---
Top Recorder Depth (Inside) 3435 ft. Recorder Number 10980 Cap 4200
Bottom Recorder Depth (Outside) 3439 ft. Recorder Number 6077 Cap 4700
Below Straddle Recorder Depth -- ft. Recorder Number ---- Cap -
Drilling Contractor Woodman - Iannitti Drlg. Drill Collar Length --- I. D. -- in.
Mud Type starch Viscosity 52 Weight Pipe Length 347 I. D. 2.7 in.
Weight 9.7 Water Loss 12.8 cc. Drill Pipe Length 3064 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2 in.
Jars: Make --- Serial Number ---- Anchor Length 66 ft. Size 5 1/2 in.
Did Well Flow? ----- Reversed Out ---- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow on initial flow period. Final flow period - no blow.

Recovered 30 ft. of gas in pipe
Recovered 30 ft. of oil specked mud
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 11:00 A.M. P.M. Time Started Off Bottom 1:30 A.M. P.M. Maximum Temperature 106°
Initial Hydrostatic Pressure (A) 1900 P.S.I.
Initial Flow Period Minutes 30 (B) 48 P.S.I. to (C) 52 P.S.I.
Initial Closed In Period Minutes 30 (D) 1049 P.S.I.
Final Flow Period Minutes 30 (E) 61 P.S.I. to (F) 61 P.S.I.
Final Closed In Period Minutes 63 (G) 1098 P.S.I.
Final Hydrostatic Pressure (H) 1823 P.S.I.

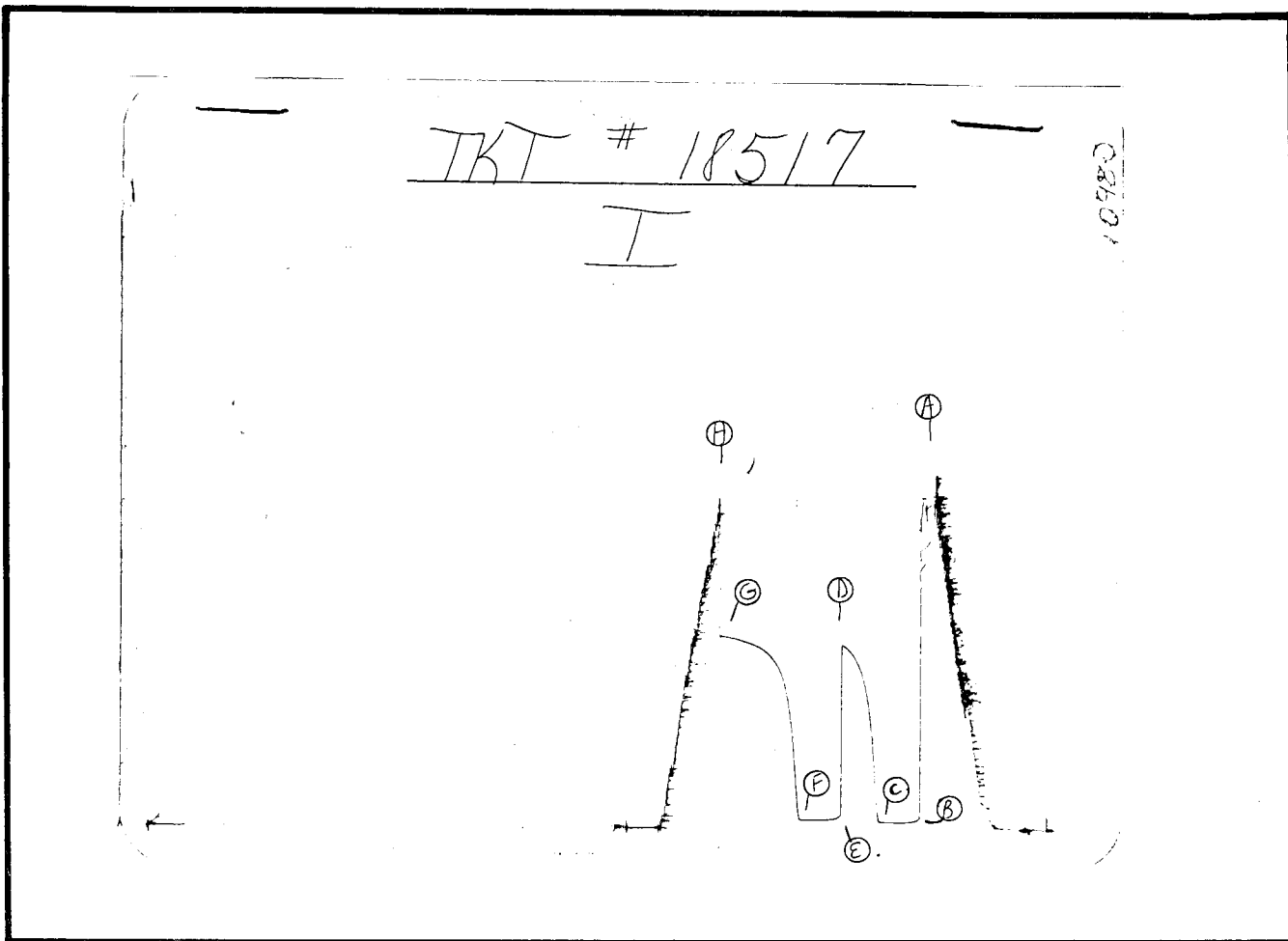
WESTERN TESTING CO., INC.

Pressure Data

Date 3/17/83 Test Ticket No. 18517
 Recorder No. 10980 Capacity 4200 Location 3435 Ft.
 Clock No. - - - - - Elevation 1871 Kelly Bushing Well Temperature 106 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1900 P.S.I. Open Tool 11:00 M
 B First Initial Flow Pressure 48 P.S.I. First Flow Pressure 30 Mins 30 Mins.
 C First Final Flow Pressure 52 P.S.I. Initial Closed-in Pressure 30 Mins 30 Mins.
 D Initial Closed-in Pressure 1049 P.S.I. Second Flow Pressure 30 Mins 30 Mins.
 E Second Initial Flow Pressure 61 P.S.I. Final Closed-in Pressure 60 Mins 63 Mins.
 F Second Final Flow Pressure 61 P.S.I.
 G Final Closed-in Pressure 1098 P.S.I.
 H Final Hydrostatic Mud 1823 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>21</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>48</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>
P 2 <u>5</u>	<u>48</u>	<u>3</u>	<u>159</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>142</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>442</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>391</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>658</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>613</u>
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>793</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>739</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>885</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>835</u>
P 7 <u>30</u>	<u>52</u>	<u>18</u>	<u>938</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>900</u>
P 8		<u>21</u>	<u>979</u>			<u>21</u>	<u>942</u>
P 9		<u>24</u>	<u>1011</u>			<u>24</u>	<u>974</u>
P10		<u>27</u>	<u>1034</u>			<u>27</u>	<u>998</u>
P11		<u>30</u>	<u>1049</u>			<u>30</u>	<u>1017</u>
P12						<u>33</u>	<u>1032</u>
P13						<u>36</u>	<u>1045</u>
P14						<u>39</u>	<u>1052</u>
P15						<u>42</u>	<u>1061</u>
P16						<u>45</u>	<u>1070</u>
P17						<u>48</u>	<u>1076</u>
P18						<u>51</u>	<u>1082</u>
P19						<u>54</u>	<u>1088</u>
P20						<u>57</u>	<u>1092</u>
						<u>60</u>	<u>1095</u>
						<u>63</u>	<u>1098</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1912	1900	PSI
(B) First Initial Flow Pressure	42	48	PSI
(C) First Final Flow Pressure	42	52	PSI
(D) Initial Closed-in Pressure	1038	1049	PSI
(E) Second Initial Flow Pressure	53	61	PSI
(F) Second Final Flow Pressure	53	61	PSI
(G) Final Closed-in Pressure	1091	1098	PSI
(H) Final Hydrostatic Mud	1902	1823	PSI

Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company <u>Messman-Rinehart Corporation</u>				Lease & Well No. <u>#3 West</u>			
Elevation <u>1871 Kelly Bushing</u>		Formation <u>Arbuckle</u>		Effective Pay <u>--</u>		Ft. Ticket No. <u>18518</u>	
Date <u>3/18/83</u>	Sec. <u>24</u>	Twp. <u>19S</u>	Range <u>14W</u>	County <u>Barton</u>	State <u>Kansas</u>		
Test Approved by <u>J. G. Klein</u>				Western Representative <u>Dan Delaney</u>			
Formation Test No. <u>5</u>		Interval Tested from <u>3489</u>		ft. to <u>3506</u>		ft. Total Depth <u>3506</u> ft.	
Packer Depth <u>3489</u> ft.		Size <u>6 5/8</u> in.		Packer Depth <u>---</u> ft.		Size <u>--</u> in.	
Packer Depth <u>3484</u> ft.		Size <u>6 5/8</u> in.		Packer Depth <u>----</u> ft.		Size <u>--</u> in.	
Depth of Selective Zone Set <u>--</u>							
Top Recorder Depth (Inside) <u>3492</u> ft.				Recorder Number <u>10980</u> Cap. <u>4200</u>			
Bottom Recorder Depth (Outside) <u>3496</u> ft.				Recorder Number <u>6077</u> Cap. <u>4700</u>			
Below Straddle Recorder Depth <u>---</u> ft.				Recorder Number <u>-----</u> Cap. <u>----</u>			
Drilling Contractor <u>Woodman - Iannitti Drlg. Rig #2</u>				Drill Collar Length <u>-</u> I. D. <u>-</u> in.			
Mud Type <u>starch</u> Viscosity <u>50</u>				Weight Pipe Length <u>379</u> I. D. <u>2.7</u> in.			
Weight <u>9.7</u> Water Loss <u>15.8cc.</u>				Drill Pipe Length <u>3089</u> I. D. <u>3.8</u> in.			
Chlorides <u>60,000</u> P.P.M.				Test Tool Length <u>21</u> ft. Tool Size <u>4-1/2</u> in.			
Jars: Make <u>----</u> Serial Number <u>----</u>				Anchor Length <u>17</u> ft. Size <u>5 1/2</u> in.			
Did Well Flow? <u>----</u> Reversed Out <u>----</u>				Surface Choke Size <u>3/4</u> in. Bottom Choke Size <u>3/4</u> in.			
				Main Hole Size <u>7 7/8</u> in. Tool Joint Size <u>4 1/2 XH</u> in.			

Blow: Weak blow slowly building from one half inch to one and one fourth inch on initial flow
period. Weak blow (one half inch) on final flow period.

Recovered	140	ft. of	oil specked muddy water	TOP : 68% mud;32% water
Recovered		ft. of		BOTTOM : 30% mud;70% water
Recovered		ft. of		Chlorides 41,000 ppm
Recovered		ft. of		
Recovered		ft. of		

Remarks:—

Time Set	Packer(s)	10:20	A.M. P.M.	Time Started Off Bottom	1:50	A.M. P.M.	Maximum Temperature	111°
Initial Hydrostatic Pressure				(A)	1945	P.S.I.		
Initial Flow Period		Minutes	30	(B)	52	P.S.I. to (C)	55	P.S.I.
Initial Closed In Period		Minutes	30	(D)	1099	P.S.I.		
Final Flow Period		Minutes	90	(E)	72	P.S.I. to (F)	102	P.S.I.
Final Closed In Period		Minutes	57	(G)	1090	P.S.I.		
Final Hydrostatic Pressure				(H)	1891	P.S.I.		

WESTERN TESTING CO., INC.

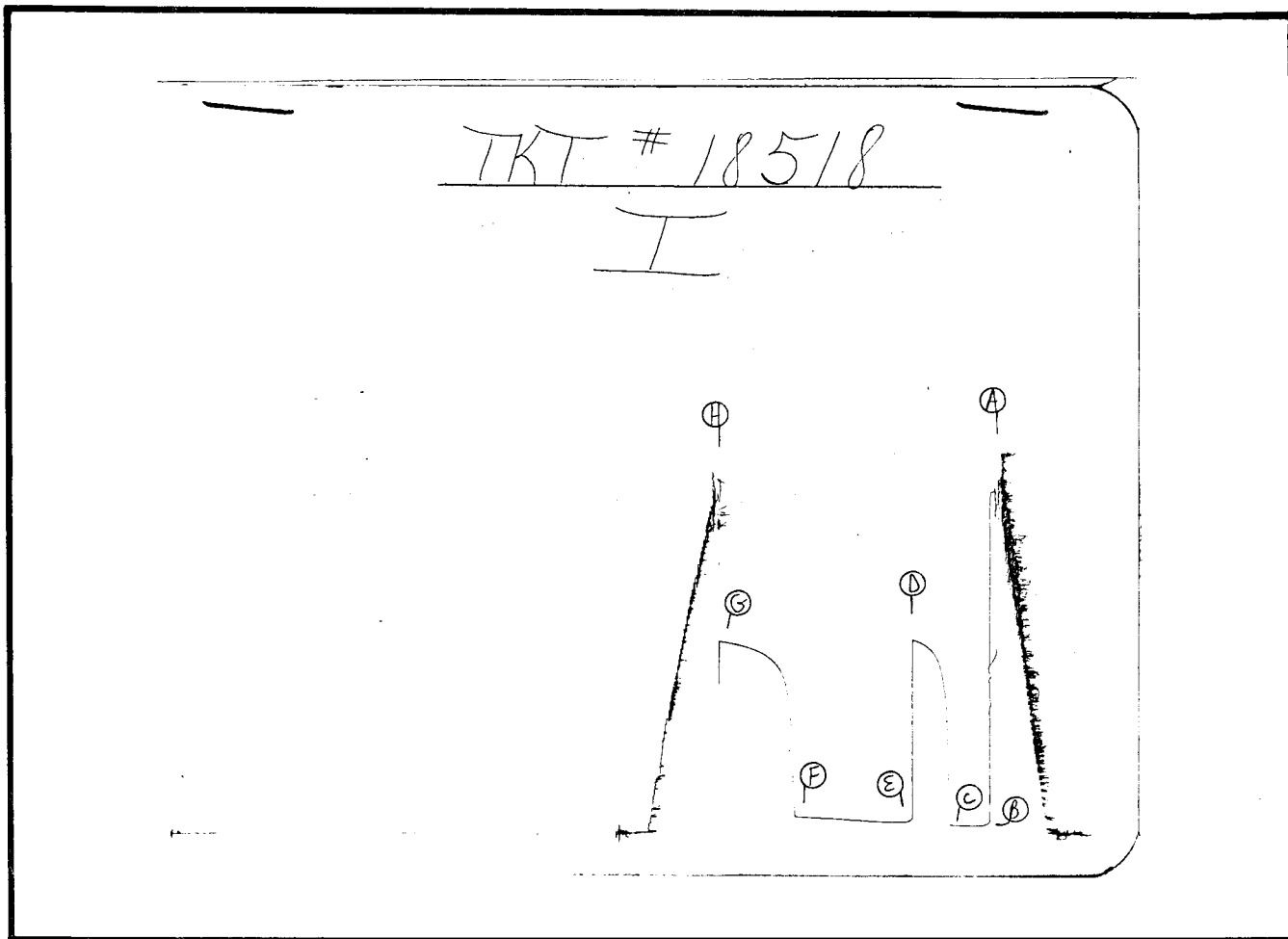
Pressure Data

Date 3/18/83 Test Ticket No. 18518
 Recorder No. 10980 Capacity 4200 Location 3492 Ft.
 Clock No. --- Elevation 1871 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1945 P.S.I.	Open Tool	10:20A	M
B First Initial Flow Pressure	52 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	55 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1099 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	72 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F Second Final Flow Pressure	102 P.S.I.			
G Final Closed-in Pressure	1090 P.S.I.			
H Final Hydrostatic Mud	1891 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>19</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 0	52	0	55	0	72	0	102
P 2 5	52	3	598	5	72	3	620
P 3 10	52	6	838	10	72	6	797
P 4 15	53	9	936	15	72	9	887
P 5 20	54	12	994	20	73	12	938
P 6 25	55	15	1030	25	74	15	968
P 7 30	55	18	1051	30	76	18	988
P 8		21	1071	35	78	21	1004
P 9		24	1083	40	81	24	1018
P10		27	1093	45	84	27	1030
P11		30	1099	50	87	30	1041
P12				55	90	33	1048
P13				60	92	36	1056
P14				65	94	39	1063
P15				70	96	42	1070
P16				75	98	45	1075
P17				80	100	48	1079
P18				85	101	51	1083
P19				90	102	54	1087
P20						57	1090



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1983	1945	PSI
(B) First Initial Flow Pressure	42	52	PSI
(C) First Final Flow Pressure	53	55	PSI
(D) Initial Closed-in Pressure	1102	1099	PSI
(E) Second Initial Flow Pressure	64	72	PSI
(F) Second Final Flow Pressure	96	102	PSI
(G) Final Closed-in Pressure	1091	1090	PSI
(H) Final Hydrostatic Mud	1912	1891	PSI