



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company J. A. Allison Lease & Well No. Krause #1

Elevation 3123 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 8374

Date 11/4/80 Sec. 20 Twp. 18S Range 34W County Scott State Kansas

Test Approved by Delbert J. Costa Western Representative Ken Metzler

Formation Test No. I Interval Tested from 4244 ft. to 4285 ft. Total Depth 4285 ft.

Packer Depth 4239 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4244 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4276 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 4279 ft. Recorder Number 2603 Cap. 4400

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

Drilling Contractor Gabbert-Jones Drlg. Rig #4 Drill Collar Length 488 I. D. 2.26 in.

Mud Type drispac Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 8.9 Water Loss 16.0 cc. Drill Pipe Length 3822 I. D. 3.8 in.

Chlorides 13,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 951 Anchor Length 41 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out Yes 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 FH in.

Blow: Weak blow building to strong blow in five minutes on initial flow period.

Recovered 1600 ft. of muddy sulphur water (29,000 chlorides ppm)

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:27 ~~A.M.~~ P.M. Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 125°

Initial Hydrostatic Pressure 2040 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 104 P.S.I. to (C) 511 P.S.I.

Initial Closed In Period 39 Minutes (D) 1212 P.S.I.

Final Flow Period 30 Minutes (E) 581 P.S.I. to (F) 722 P.S.I.

Final Closed In Period 51 Minutes (G) 1212 P.S.I.

Final Hydrostatic Pressure 2029 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 11-4-80 Test Ticket No. 8374
 Recorder No. 1564 Capacity 3150 Location 4276 Ft.
 Clock No. - Elevation 3123 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2040	P.S.I.	11:27P	M
B First Initial Flow Pressure	104	P.S.I.	30	30 Mins.
C First Final Flow Pressure	511	P.S.I.	45	39 Mins.
D Initial Closed-in Pressure	1212	P.S.I.	30	30 Mins.
E Second Initial Flow Pressure	581	P.S.I.	45	51 Mins.
F Second Final Flow Pressure	722	P.S.I.		
G Final Closed-in Pressure	1212	P.S.I.		
H Final Hydrostatic Mud	2029	P.S.I.		

PRESSURE BREAKDOWN

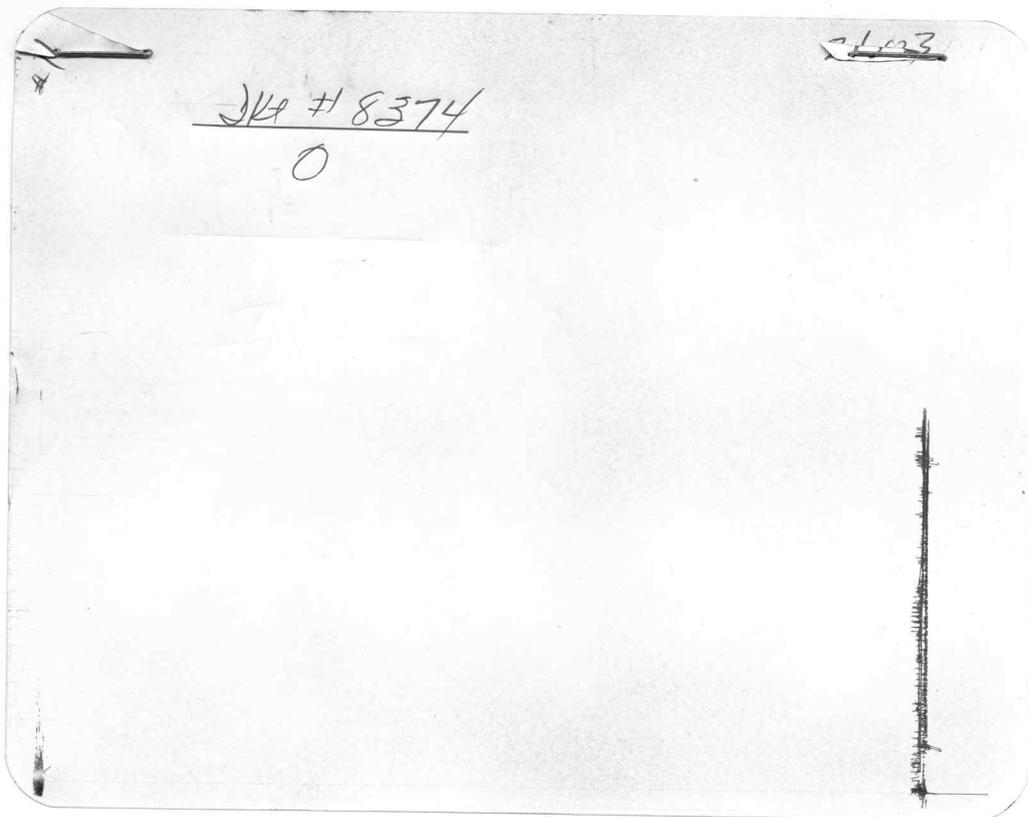
First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

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

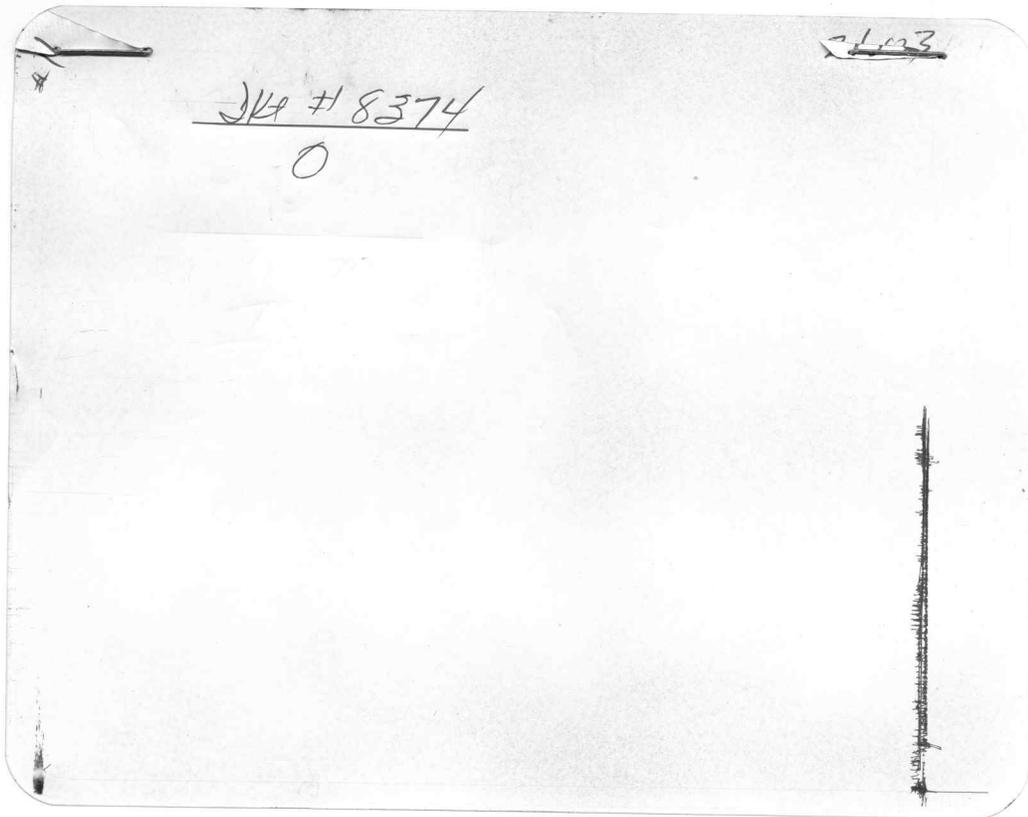
Final Shut-In
 Breakdown: 17 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	104	0	511	0	581	0	722
P 2 5	207	3	1096	5	590	3	1112
P 3 10	285	6	1130	10	611	6	1144
P 4 15	341	9	1155	15	644	9	1161
P 5 20	394	12	1167	20	679	12	1175
P 6 25	450	15	1174	25	711	15	1186
P 7 30	511	18	1180	30	722	18	1193
P 8		21	1185			21	1198
P 9		24	1190			24	1201
P10		27	1196			27	1202
P11		30	1200			30	1204
P12		33	1204			33	1206
P13		36	1208			36	1208
P14		39	1212			39	1210
P15						42	1211
P16						45	1212
P17						48	1212
P18						51	1212
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2064	2040	PSI
(B) First Initial Flow Pressure	109	104	PSI
(C) First Final Flow Pressure	498	511	PSI
(D) Initial Closed-in Pressure	1220	1212	PSI
(E) Second Initial Flow Pressure	576	581	PSI
(F) Second Final Flow Pressure	725	722	PSI
(G) Final Closed-in Pressure	1220	1212	PSI
(H) Final Hydrostatic Mud	2048	2029	PSI

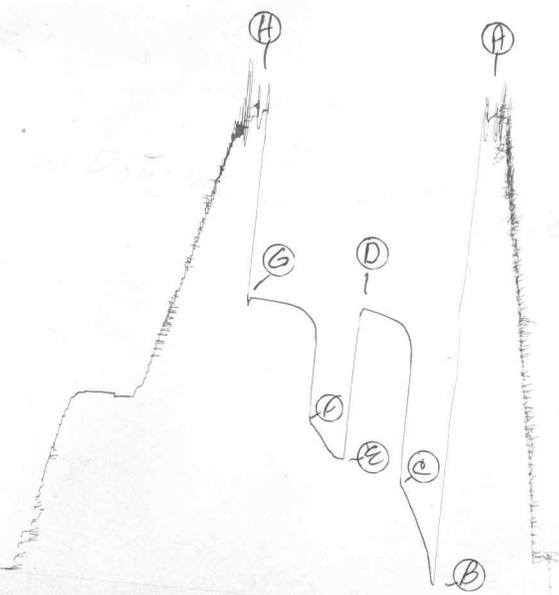


This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2064	2040	PSI
(B) First Initial Flow Pressure	109	104	PSI
(C) First Final Flow Pressure	498	511	PSI
(D) Initial Closed-in Pressure	1220	1212	PSI
(E) Second Initial Flow Pressure	576	581	PSI
(F) Second Final Flow Pressure	725	722	PSI
(G) Final Closed-in Pressure	1220	1212	PSI
(H) Final Hydrostatic Mud	2048	2029	PSI

JK #8374

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J. A. Allison

Krause #1

Company J. A. Allison Lease & Well No. _____
 Elevation 3123 Kelly Bushing Formation Beymer Effective Pay --- Ft. Ticket No. 8375
 Date 11/6/80 Sec. 20 Twp. 18S Range 34W County Scott State Kansas
 Test Approved by Delbert J. Costa Western Representative Ken Metzler

Formation Test No. 2 Interval Tested from 4539 ft. to 4580 ft. Total Depth 4580 ft.
 Packer Depth 4534 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4539 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4571 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 4574 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Gabbert-Jones Drlg. Rig #11 Drill Collar Length 488 I. D. 2.26 in.
 Mud Type Drispac Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.0 Water Loss 14.4 cc. Drill Pipe Length 4104 I. D. 3.8 in.
 Chlorides 12,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 41 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No 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 FH in.

Blow: Very weak blow; died in fifteen minutes on initial flow period. Flushed tool final flow period - very weak blow; died in ten minutes.

Recovered 3 inches clean oil
 Recovered 30 ft. of oil cut mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 2:57 = AM. P.M. Time Started Off Bottom 5:30 = AM. P.M. Maximum Temperature 121°
 Initial Hydrostatic Pressure (A) 2233 P.S.I.
 Initial Flow Period Minutes 30 (B) 54 P.S.I. to (C) 50 P.S.I.
 Initial Closed In Period Minutes 42 (D) 113 P.S.I.
 Final Flow Period Minutes 30 (E) 74 P.S.I. to (F) 60 P.S.I.
 Final Closed In Period Minutes 48 (G) 88 P.S.I.
 Final Hydrostatic Pressure (H) 2233 P.S.I.

WESTERN TESTING CO., INC.

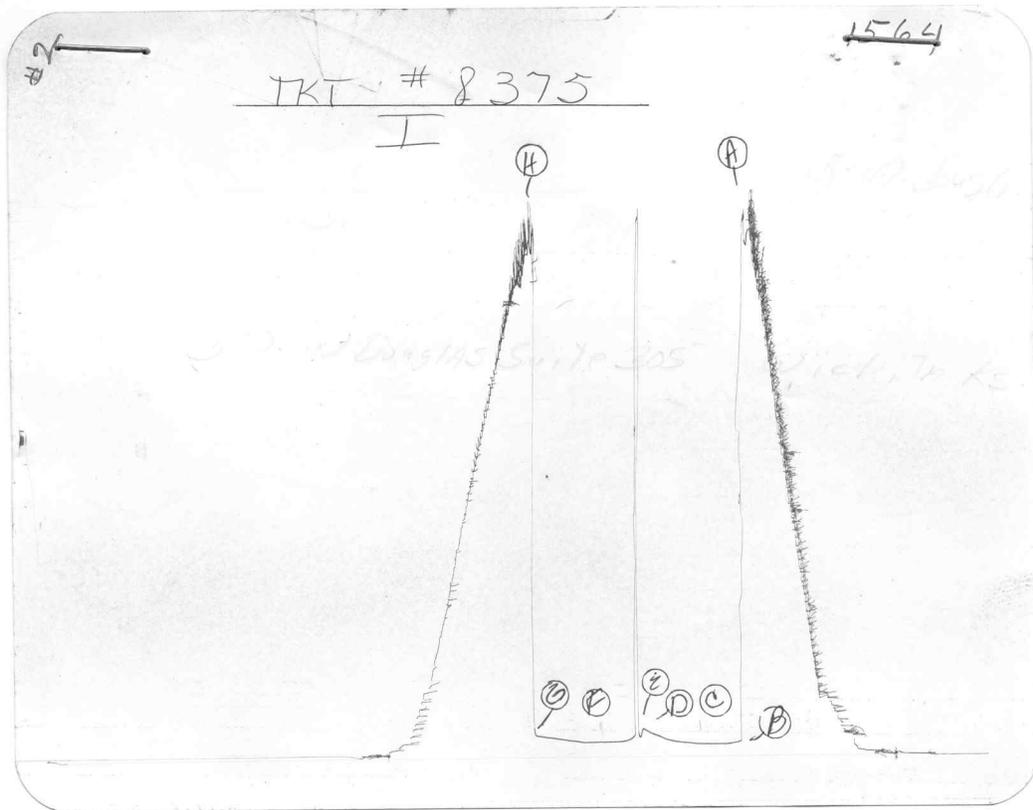
Pressure Data

Date 11-6-80 Recorder No. 1564 Capacity 3150 Test Ticket No. 8375
 Location 4571 Ft. Clock No. - Elevation 3123 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	2233	P.S.I.	2:57P	M
B. First Initial Flow Pressure	54	P.S.I.	30	Mins. 30
C. First Final Flow Pressure	50	P.S.I.	45	Mins. 42
D. Initial Closed-in Pressure	113	P.S.I.	30	Mins. 30
E. Second Initial Flow Pressure	74	P.S.I.	45	Mins. 48
F. Second Final Flow Pressure	60	P.S.I.		
G. Final Closed-in Pressure	88	P.S.I.		
H. Final Hydrostatic Mud	2233	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>16</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>54</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>60</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>52</u>	<u>5</u>	<u>81</u>	<u>3</u>	<u>60</u>
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>54</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>60</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>56</u>	<u>15</u>	<u>62</u>	<u>9</u>	<u>59</u>
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>56</u>	<u>20</u>	<u>60</u>	<u>12</u>	<u>59</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>58</u>	<u>25</u>	<u>60</u>	<u>15</u>	<u>60</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>60</u>	<u>30</u>	<u>60</u>	<u>18</u>	<u>64</u>
P 8 _____		<u>21</u>	<u>64</u>			<u>21</u>	<u>67</u>
P 9 _____		<u>24</u>	<u>68</u>			<u>24</u>	<u>68</u>
P10 _____		<u>27</u>	<u>74</u>			<u>27</u>	<u>70</u>
P11 _____		<u>30</u>	<u>82</u>			<u>30</u>	<u>73</u>
P12 _____		<u>33</u>	<u>88</u>			<u>33</u>	<u>76</u>
P13 _____		<u>36</u>	<u>95</u>			<u>36</u>	<u>78</u>
P14 _____		<u>39</u>	<u>105</u>			<u>39</u>	<u>81</u>
P15 _____		<u>42</u>	<u>113</u>			<u>42</u>	<u>83</u>
P16 _____						<u>45</u>	<u>85</u>
P17 _____						<u>48</u>	<u>88</u>
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2250	2233	PSI
(B) First Initial Flow Pressure	47	54	PSI
(C) First Final Flow Pressure	47	50	PSI
(D) Initial Closed-in Pressure	116	113	PSI
(E) Second Initial Flow Pressure	54	74	PSI
(F) Second Final Flow Pressure	54	60	PSI
(G) Final Closed-in Pressure	85	88	PSI
(H) Final Hydrostatic Mud	2233	2233	PSI



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Krause #1

Company 3123 Kelly Bushing Marmaton Formation Effective Pay - Ft. Ticket No. 8401
 Elevation 11/6/80 Date 20 Sec. 18S Twp. 34W Range Scott County Kansas State
 Test Approved by Delbert J. Costa Western Representative Ken Metzler

Lease & Well No. 3 Interval Tested from 4445 ft. to 4580 ft. Total Depth 4580 ft.
 Packer Depth 4440 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4445 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4469 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 4472 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Gabbert-Jones Drlg. Rig 11 Drill Collar Length 488 I. D. 2.26 in.
 Mud Type drispac Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.0 Water Loss 14.4 cc. Drill Pipe Length 4104 I. D. 3.8 in.
 Chlorides 12,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 135 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No 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 FH in.

Very weak blow building to weak blow (2") initial flow period. Dead on final
 Blow: flow period. Flushed tool after ten minutes; very weak blow five minutes.

255 muddy salt water (18,000 chlorides ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:57 - A.M. / P.M. Time Started Off Bottom 12:45 = A.M. / P.M. Maximum Temperature 126°
 Initial Hydrostatic Pressure (A) 2177 P.S.I.
 Initial Flow Period Minutes 30 (B) 56 P.S.I. to (C) 74 P.S.I.
 Initial Closed In Period Minutes 42 (D) 1180 P.S.I.
 Final Flow Period Minutes 45 (E) 109 P.S.I. to (F) 147 P.S.I.
 Final Closed In Period Minutes 42 (G) 1191 P.S.I.
 Final Hydrostatic Pressure (H) 2169 P.S.I.

WESTERN TESTING CO., INC.

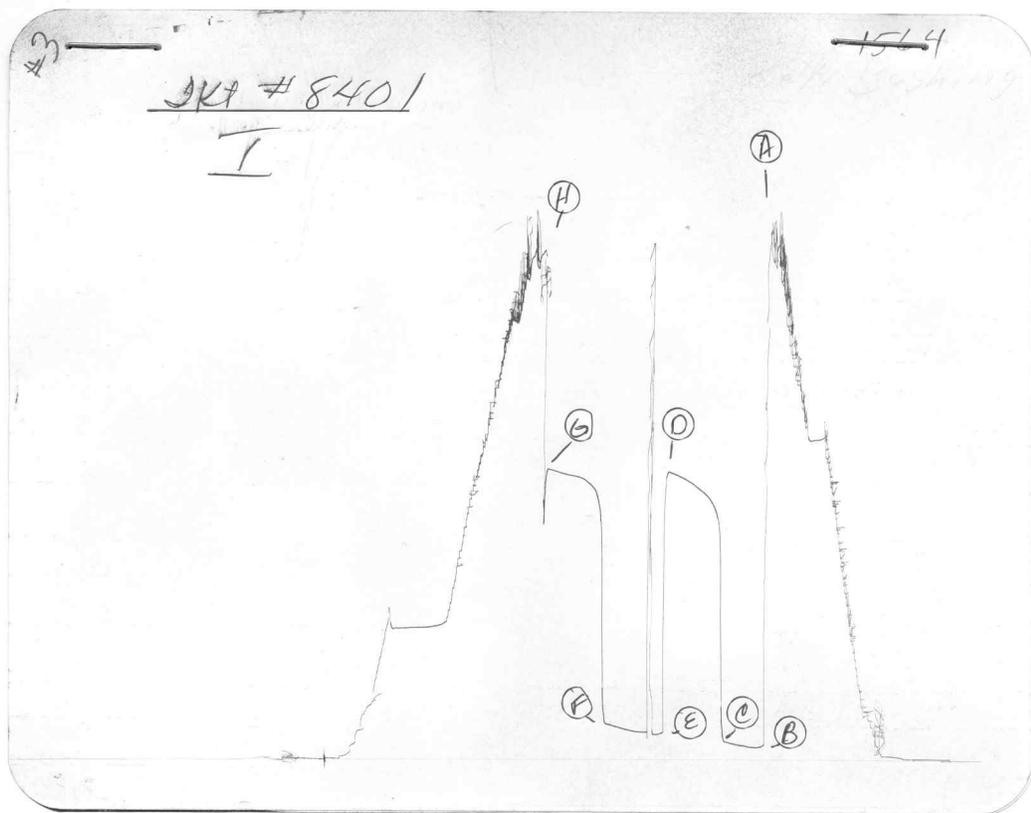
Pressure Data

Date 11-6-80 Test Ticket No. 8401
 Recorder No. 1564 Capacity 3150 Location 4469 Ft.
 Clock No. - Elevation 3123 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2177</u> P.S.I.	Open Tool	<u>9:57P</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>74</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1180</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>109</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>147</u> P.S.I.			
G Final Closed-in Pressure	<u>1191</u> P.S.I.			
H Final Hydrostatic Mud	<u>2169</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>56</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>147</u>	
P 2 <u>5</u>	<u>54</u>	<u>3</u>	<u>885</u>	<u>5</u>	<u>105</u>	<u>3</u>	<u>973</u>	
P 3 <u>10</u>	<u>54</u>	<u>6</u>	<u>1013</u>	<u>10</u>	<u>115</u>	<u>6</u>	<u>1082</u>	
P 4 <u>15</u>	<u>57</u>	<u>9</u>	<u>1051</u>	<u>15</u>	<u>116</u>	<u>9</u>	<u>1115</u>	
P 5 <u>20</u>	<u>62</u>	<u>12</u>	<u>1076</u>	<u>20</u>	<u>121</u>	<u>12</u>	<u>1133</u>	
P 6 <u>25</u>	<u>70</u>	<u>15</u>	<u>1093</u>	<u>25</u>	<u>127</u>	<u>15</u>	<u>1145</u>	
P 7 <u>30</u>	<u>74</u>	<u>18</u>	<u>1106</u>	<u>30</u>	<u>135</u>	<u>18</u>	<u>1155</u>	
P 8		<u>21</u>	<u>1117</u>	<u>35</u>	<u>144</u>	<u>21</u>	<u>1160</u>	
P 9		<u>24</u>	<u>1131</u>	<u>40</u>	<u>147</u>	<u>24</u>	<u>1163</u>	
P10		<u>27</u>	<u>1142</u>	<u>45</u>		<u>27</u>	<u>1166</u>	
P11		<u>30</u>	<u>1152</u>			<u>30</u>	<u>1171</u>	
P12		<u>33</u>	<u>1161</u>			<u>33</u>	<u>1175</u>	
P13		<u>36</u>	<u>1169</u>			<u>36</u>	<u>1182</u>	
P14		<u>39</u>	<u>1175</u>			<u>39</u>	<u>1186</u>	
P15		<u>42</u>	<u>1180</u>			<u>42</u>	<u>1191</u>	
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2209	2177	PSI
(B) First Initial Flow Pressure	47	56	PSI
(C) First Final Flow Pressure	70	74	PSI
(D) Initial Closed-in Pressure	1180	1180	PSI
(E) Second Initial Flow Pressure	93	109	PSI
(F) Second Final Flow Pressure	147	147	PSI
(G) Final Closed-in Pressure	1188	1191	PSI
(H) Final Hydrostatic Mud	2193	2169	PSI