



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Graham - Michaelis Corporation Lease & Well No. Halbeck #1-8
Elevation 1749 Derrick Floor Formation Lansing Effective Pay - Ft. Ticket No. 15020
Date 10/ 5 /81 Sec. 8 Twp. 21S Range 10W County Rice State Kansas
Test Approved by John W. Emerson Western Representative Cliff Scheuerman
Formation Test No. 1 Interval Tested from 3100 ft. to 3140 ft. Total Depth 3140 ft.
Packer Depth 3095 ft. Size 6 5/8 in. Packer Depth 3100 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3132 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3135 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Target Drlg. Inc. Rig #1 Drill Collar Length 437 I. D. 2.25 in.
Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.
Weight 10.0 Water Loss 20 cc. Drill Pipe Length 2633 I. D. 3.8 in.
Chlorides 68,000 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 OD in.
Jars: Make WIC Serial Number 414 Anchor Length 40 ft. Size 5 1/2 OD 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 XH in.

Blow: Fair building to strong throughout test.

Recovered 590 ft. of gas in pipe
Recovered 30 ft. of oil spotted gas cut mud
Recovered 190 ft. of oil and gas cut mud 29% oil;14% water;57% mud

Recovered ft. of

Recovered ft. of

Remarks: Slid tool five feet to bottom.

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:45 ~~A.M.~~ P.M. Maximum Temperature 105°
Initial Hydrostatic Pressure 1656 P.S.I.
Initial Flow Period 30 Minutes (B) 103 P.S.I. to (C) 103 P.S.I.
Initial Closed In Period 45 Minutes (D) 759 P.S.I.
Final Flow Period 60 Minutes (E) 134 P.S.I. to (F) 146 P.S.I.
Final Closed In Period 87 Minutes (G) 1017 P.S.I.
Final Hydrostatic Pressure 1648 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 10/5/81 Recorder No. 1563 Capacity 4200 Test Ticket No. 15020
 Clock No. - Elevation 1749 Derrick Floor Location 3132 Ft. 105 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1656 P.S.I.	9:00P	M
B First Initial Flow Pressure	103 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	103 P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	759 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	134 P.S.I.	90 Mins.	87 Mins.
F Second Final Flow Pressure	146 P.S.I.		
G Final Closed-in Pressure	1017 P.S.I.		
H Final Hydrostatic Mud	1648 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>29</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>103</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>146</u>
P 2 <u>5</u>	<u>103</u>	<u>3</u>	<u>111</u>	<u>5</u>	<u>134</u>	<u>3</u>	<u>151</u>
P 3 <u>10</u>	<u>103</u>	<u>6</u>	<u>126</u>	<u>10</u>	<u>134</u>	<u>6</u>	<u>165</u>
P 4 <u>15</u>	<u>103</u>	<u>9</u>	<u>152</u>	<u>15</u>	<u>134</u>	<u>9</u>	<u>181</u>
P 5 <u>20</u>	<u>103</u>	<u>12</u>	<u>171</u>	<u>20</u>	<u>135</u>	<u>12</u>	<u>194</u>
P 6 <u>25</u>	<u>103</u>	<u>15</u>	<u>200</u>	<u>25</u>	<u>135</u>	<u>15</u>	<u>211</u>
P 7 <u>30</u>	<u>103</u>	<u>18</u>	<u>235</u>	<u>30</u>	<u>135</u>	<u>18</u>	<u>228</u>
P 8		<u>21</u>	<u>274</u>	<u>35</u>	<u>136</u>	<u>21</u>	<u>246</u>
P 9		<u>24</u>	<u>318</u>	<u>40</u>	<u>137</u>	<u>24</u>	<u>265</u>
P10		<u>27</u>	<u>367</u>	<u>45</u>	<u>139</u>	<u>27</u>	<u>287</u>
P11		<u>30</u>	<u>418</u>	<u>50</u>	<u>141</u>	<u>30</u>	<u>308</u>
P12		<u>33</u>	<u>474</u>	<u>55</u>	<u>143</u>	<u>33</u>	<u>336</u>
P13		<u>36</u>	<u>540</u>	<u>60</u>	<u>146</u>	<u>36</u>	<u>362</u>
P14		<u>39</u>	<u>614</u>			<u>39</u>	<u>392</u>
P15		<u>42</u>	<u>696</u>			<u>42</u>	<u>422</u>
P16		<u>45</u>	<u>759</u>			<u>45</u>	<u>452</u>
P17						<u>48</u>	<u>492</u>
P18						<u>51</u>	<u>536</u>
P19						<u>54</u>	<u>583</u>
P20						<u>57</u>	<u>626</u>
						<u>60</u>	<u>674</u>

WESTERN TESTING CO., INC.

Pressure Data

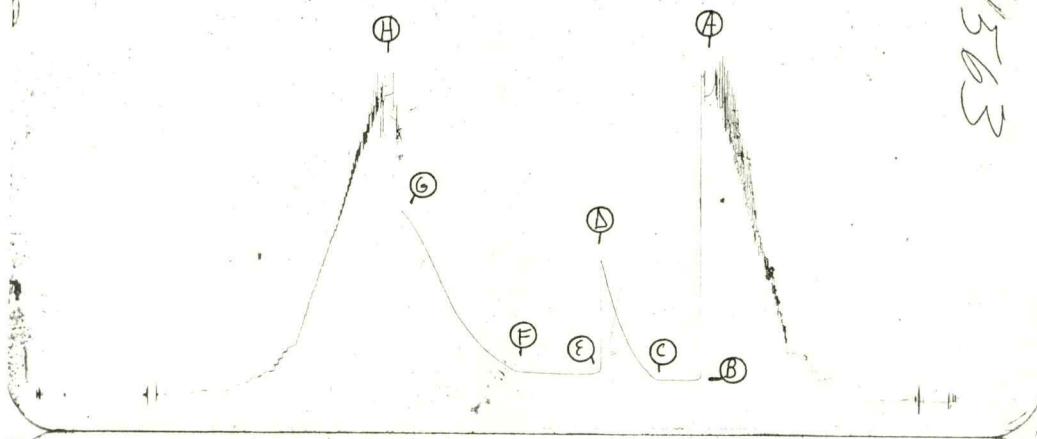
Date 10/5/81 Test Ticket No. 15020
 Recorder No. 1563 Capacity 4200 Location 3132 Ft.
 Clock No. - Elevation 1749 Derrick Floor Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1656</u>	P.S.I.	9:00P	M
B First Initial Flow Pressure	<u>103</u>	P.S.I.	30	Mins. 30
C First Final Flow Pressure	<u>103</u>	P.S.I.	45	Mins. 45
D Initial Closed-in Pressure	<u>759</u>	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	<u>134</u>	P.S.I.	90	Mins. 87
F Second Final Flow Pressure	<u>1467</u>	P.S.I.		
G Final Closed-in Pressure	<u>1017</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1648</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>29</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	Press.	Point	Press.	Point	Press.	Point	Press.
Mins.		Minutes		Minutes		Minutes	
P 1						63	721
P 2						66	767
P 3						69	813
P 4						72	855
P 5						75	895
P 6						78	935
P 7						81	970
P 8						84	1000
P 9						87	1017
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 15020
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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1765	1656	PSI
(B) First Initial Flow Pressure	107	103	PSI
(C) First Final Flow Pressure	96	103	PSI
(D) Initial Closed-in Pressure	740	759	PSI
(E) Second Initial Flow Pressure	129	134	PSI
(F) Second Final Flow Pressure	129	146	PSI
(G) Final Closed-in Pressure	1006	1017	PSI
(H) Final Hydrostatic Mud	1734	1648	PSI



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Company Graham - Michaelis Corporation Lease & Well No. Halbeck #1-8
Elevation 1749 Derrick Floor Formation Kansas City Effective Pay - Ft. Ticker No. 15021
Date 10/6/81 Sec. 8 Twp. 21S Range 10W County Rice State Kansas
Test Approved by John W. Emerson Western Representative Cliff Scheuerman
Formation Test No. 2 Interval Tested from 3201 ft. to 3241 ft. Total Depth 3241 ft.
Packer Depth 3196 ft. Size 6 5/8 in. Packer Depth 3201 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3231 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3234 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Target Drlg. Inc. Rig #1 Drill Collar Length 437 I. D. 2.25 in.
Mud Type starch Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.9 Water Loss 11.2 cc. Drill Pipe Length 2732 I. D. 3.8 in.
Chlorides 59,000 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 OD in.
Jars: Make WIC Serial Number 414 Anchor Length 40 ft. Size 5 1/2 OD 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 XH in.

Blow: Initial flow period very weak; died; flushed tool; weak blow; died ten minutes. Final flow period flushed tool - weak blow and died in ten minutes.

Recovered 30 ft. of drilling mud
Recovered ft. of
Recovered ft. of
Recovered ft. of Some oil spotting top of tool
Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:30 ~~A.M.~~ P.M. Maximum Temperature 115°
Initial Hydrostatic Pressure (A) 1635 P.S.I.
Initial Flow Period Minutes 30 (B) 71 P.S.I. to (C) 72 P.S.I.
Initial Closed In Period Minutes 48 (D) 1112 P.S.I.
Final Flow Period Minutes 30 (E) 87 P.S.I. to (F) 79 P.S.I.
Final Closed In Period Minutes 45 (G) 1108 P.S.I.
Final Hydrostatic Pressure (H) 1622 P.S.I.

WESTERN TESTING CO., INC.

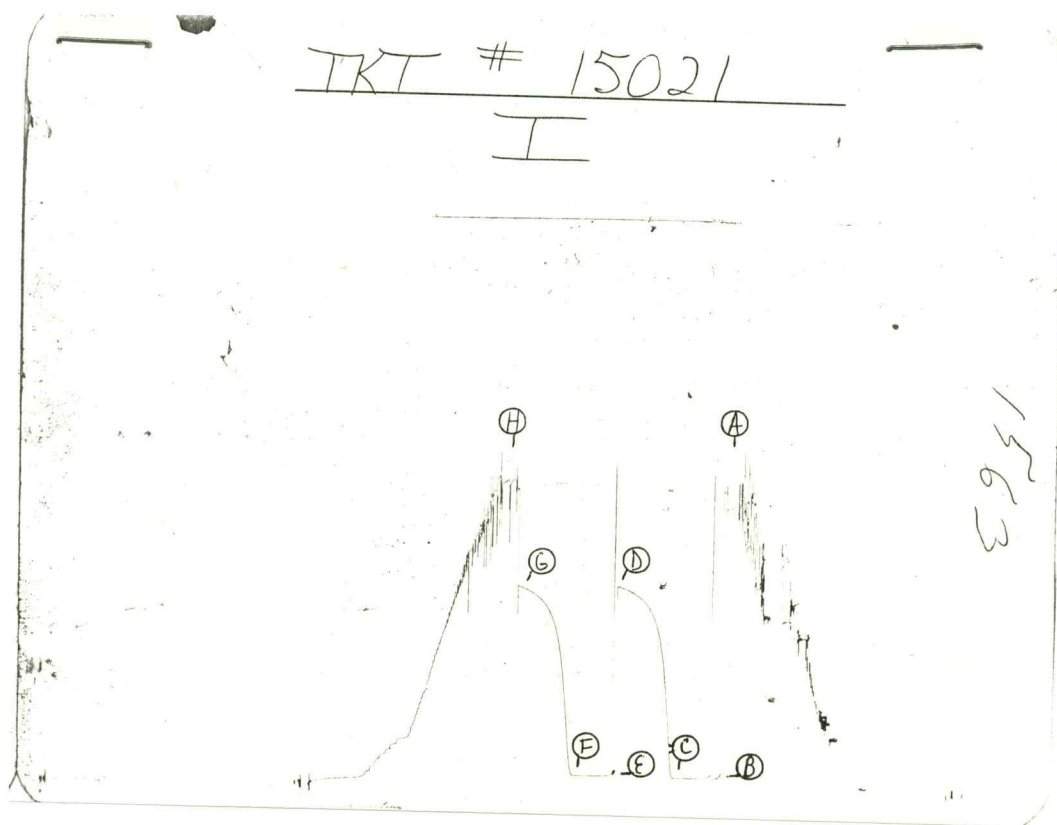
Pressure Data

Date 10/6/81 Test Ticket No. 15021
 Recorder No. 1563 Capacity 4200 Location 3231 Ft.
 Clock No. - Elevation 1749 Derrick Floor Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1635</u>	P.S.I.	<u>10:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>72</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1112</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>87</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>79</u>	P.S.I.		
G Final Closed-in Pressure	<u>1108</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1622</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>16</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>71</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>79</u>
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>72</u>	<u>5</u>	<u>82</u>	<u>3</u>	<u>122</u>
P 3 <u>10</u>	<u>81</u>	<u>6</u>	<u>81</u>	<u>10</u>	<u>80</u>	<u>6</u>	<u>366</u>
P 4 <u>15</u>	<u>75</u>	<u>9</u>	<u>330</u>	<u>15</u>	<u>80</u>	<u>9</u>	<u>596</u>
P 5 <u>20</u>	<u>74</u>	<u>12</u>	<u>594</u>	<u>20</u>	<u>79</u>	<u>12</u>	<u>774</u>
P 6 <u>25</u>	<u>73</u>	<u>15</u>	<u>770</u>	<u>25</u>	<u>79</u>	<u>15</u>	<u>877</u>
P 7 <u>30</u>	<u>72</u>	<u>18</u>	<u>881</u>	<u>30</u>	<u>79</u>	<u>18</u>	<u>943</u>
P 8		<u>21</u>	<u>949</u>			<u>21</u>	<u>988</u>
P 9		<u>24</u>	<u>994</u>			<u>24</u>	<u>1021</u>
P10		<u>27</u>	<u>1025</u>			<u>27</u>	<u>1043</u>
P11		<u>30</u>	<u>1046</u>			<u>30</u>	<u>1061</u>
P12		<u>33</u>	<u>1063</u>			<u>33</u>	<u>1076</u>
P13		<u>36</u>	<u>1078</u>			<u>36</u>	<u>1086</u>
P14		<u>39</u>	<u>1091</u>			<u>39</u>	<u>1096</u>
P15		<u>42</u>	<u>1099</u>			<u>42</u>	<u>1103</u>
P16		<u>45</u>	<u>1107</u>			<u>45</u>	<u>1108</u>
P17		<u>48</u>	<u>1112</u>				
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1660	1635	PSI
(B) First Initial Flow Pressure	96	71	PSI
(C) First Final Flow Pressure	75	72	PSI
(D) Initial Closed-in Pressure	1122	1112	PSI
(E) Second Initial Flow Pressure	86	87	PSI
(F) Second Final Flow Pressure	75	79	PSI
(G) Final Closed-in Pressure	1111	1108	PSI
(H) Final Hydrostatic Mud	1639	1622	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

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Company Graham - Michaelis Corporation Lease & Well No. Halbeck #1-8
Elevation 1749 Derrick Floor Formation Kansas City Effective Pay - Ft. Ticket No. 15022
Date 10/ 7 /81 Sec. 8 Twp. 21S Range 10W County Rice State Kansas
Test Approved by John W. Emerson Western Representative Cliff Scheuerman
Formation Test No. 3 Interval Tested from 3245 ft. to 3290 ft. Total Depth 3290 ft.
Packer Depth 3240 ft. Size 6 5/8 in. Packer Depth 3245 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3280 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3283 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Target Drlg. Inc. Rig #1 Drill Collar Length 437 I. D. 2.25 in.
Mud Type starch Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 10.0 Water Loss 7.2 cc. Drill Pipe Length 2776 I. D. 3.8 in.
Chlorides 59,000 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 414 Anchor Length 45 ft. Size 5 1/2 OD 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 XH in.

Blow: Initial flow period very weak; died in twelve minutes. Final flow period no blow.

Flushed tool - very weak blow five minutes and died.

Recovered 15 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read Recorder 1562

Time Set	Packer(s) <u>6:30</u>	A.M. P.M.	Time Started Off Bottom	<u>9:00</u>	A.M. P.M.	Maximum Temperature	<u>114°</u>
Initial Hydrostatic Pressure				<u>1682</u>	P.S.I.		
Initial Flow Period	Minutes <u>30</u>	(B)		<u>68</u>	P.S.I. to (C)	<u>68</u>	P.S.I.
Initial Closed In Period	Minutes <u>45</u>	(D)		<u>83</u>	P.S.I.		
Final Flow Period	Minutes <u>30</u>	(E)		<u>72</u>	P.S.I. to (F)	<u>70</u>	P.S.I.
Final Closed In Period	Minutes <u>45</u>	(G)		<u>78</u>	P.S.I.		
Final Hydrostatic Pressure				<u>1654</u>	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 10/7/81Test Ticket No. 15022Recorder No. 1562 Capacity 3900 Location 3283 Ft.Clock No. - Elevation 1749 Derrick Floor Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1682</u> P.S.I.	Open Tool	<u>6:30P</u> M	
B First Initial Flow Pressure	<u>68</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>68</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>83</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>72</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>70</u> P.S.I.			
G Final Closed-in Pressure	<u>78</u> P.S.I.			
H Final Hydrostatic Mud	<u>1654</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>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>68</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>70</u>
P 2 <u>5</u>	<u>68</u>	<u>3</u>	<u>68</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>70</u>
P 3 <u>10</u>	<u>68</u>	<u>6</u>	<u>69</u>	<u>10</u>	<u>76</u>	<u>6</u>	<u>70</u>
P 4 <u>15</u>	<u>68</u>	<u>9</u>	<u>69</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>70</u>
P 5 <u>20</u>	<u>68</u>	<u>12</u>	<u>70</u>	<u>20</u>	<u>71</u>	<u>12</u>	<u>70</u>
P 6 <u>25</u>	<u>68</u>	<u>15</u>	<u>70</u>	<u>25</u>	<u>71</u>	<u>15</u>	<u>71</u>
P 7 <u>30</u>	<u>68</u>	<u>18</u>	<u>71</u>	<u>30</u>	<u>70</u>	<u>18</u>	<u>71</u>
P 8		<u>21</u>	<u>71</u>			<u>21</u>	<u>72</u>
P 9		<u>24</u>	<u>72</u>			<u>24</u>	<u>72</u>
P10		<u>27</u>	<u>73</u>			<u>27</u>	<u>73</u>
P11		<u>30</u>	<u>74</u>			<u>30</u>	<u>74</u>
P12		<u>33</u>	<u>75</u>			<u>33</u>	<u>75</u>
P13		<u>36</u>	<u>77</u>			<u>36</u>	<u>76</u>
P14		<u>39</u>	<u>79</u>			<u>39</u>	<u>77</u>
P15		<u>42</u>	<u>81</u>			<u>42</u>	<u>78</u>
P16		<u>45</u>	<u>83</u>			<u>45</u>	<u>78</u>
P17							
P18							
P19							
P20							

COMPANY GRAHAM - MICHAELIS CORPORATION

LEASE AND WELL NO. _____

HAIRBECK #1-8

SEC. _____

8

TWP. _____

21S

RGE. _____

10W

TEST NO. _____

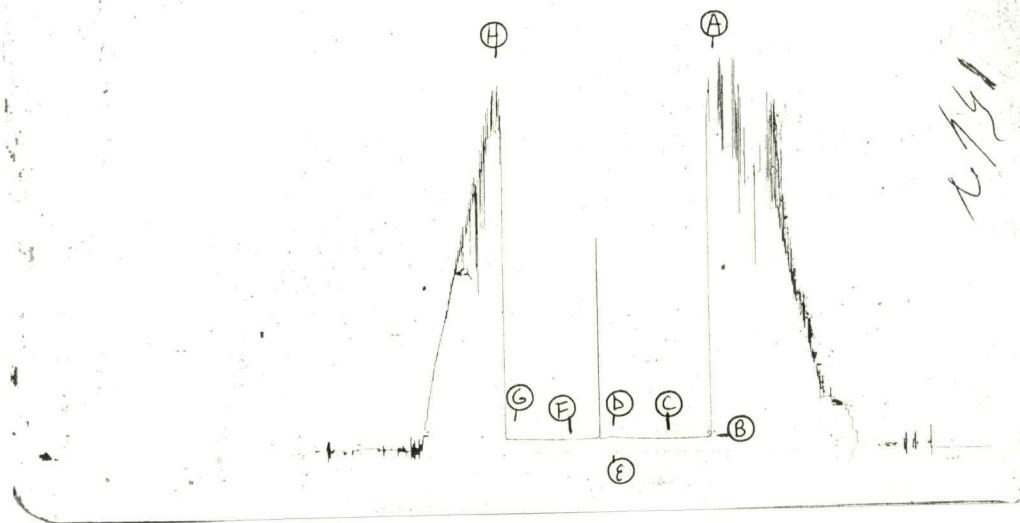
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DATE _____

10/7 /81

TKT # 15022

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1835	1682	PSI
(B) First Initial Flow Pressure	70	68	PSI
(C) First Final Flow Pressure	60	68	PSI
(D) Initial Closed-in Pressure	80	83	PSI
(E) Second Initial Flow Pressure	70	72	PSI
(F) Second Final Flow Pressure	70	70	PSI
(G) Final Closed-in Pressure	80	78	PSI
(H) Final Hydrostatic Mud	1826	1654	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Graham - Michaelis Corporation Lease & Well No. Halbeck #1-8
Elevation 1749 Derrick Floor Formation Simpson Effective Pay - Ft. Ticket No. 15023
Date 10/8/81 Sec. 8 Twp. 21S Range 10W County Rice State Kansas
Test Approved by John W. Emerson Western Representative Cliff Scheuerman
Formation Test No. 4 Interval Tested from 3336 ft. to 3362 ft. Total Depth 3362 ft.
Packer Depth 3331 ft. Size 6 5/8 in. Packer Depth 3336 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3352 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3355 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Target Drlg. Rig #1 Drill Collar Length 437 I. D. 2.25 in.
Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.
Weight 10.1 Water Loss 9.8 cc. Drill Pipe Length 2767 I. D. 3.8 in.
Chlorides 63,000 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 414 Anchor Length 26 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 in.

Initial flow period good building to strong. Final flow period strong blow throughout.

Blow:

Recovered 2390 ft. of gas cut water 20,000 chlorides ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set	<u>4:30</u>	<u>A.M.</u>	Time Started Off Bottom	<u>8:15</u>	<u>A.M.</u>	Maximum Temperature	<u>118°</u>
		P.M.			P.M.		
Initial Hydrostatic Pressure			(A)	<u>1766</u>		P.S.I.	
Initial Flow Period		Minutes	(B)	<u>30</u>		P.S.I. to (C)	<u>772</u> P.S.I.
Initial Closed In Period		Minutes	(D)	<u>45</u>		P.S.I.	
Final Flow Period		Minutes	(E)	<u>60</u>		P.S.I. to (F)	<u>1078</u> P.S.I.
Final Closed In Period		Minutes	(G)	<u>93</u>		P.S.I.	
Final Hydrostatic Pressure			(H)	<u>1757</u>		P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 10/8/81 Recorder No. 1563 Capacity 4200 Test Ticket No. 15023
 Location 1749 Derrick Floor Ft. 118
 Clock No. - Elevation - Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1766	P.S.I.	4:30P	M
B First Initial Flow Pressure	266	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	772	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1120	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	847	P.S.I.	90	Mins. 93 Mins.
F Second Final Flow Pressure	1078	P.S.I.		
G Final Closed-in Pressure	1140	P.S.I.		
H Final Hydrostatic Mud	1757	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>31</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>266</u>	<u>0</u>	<u>772</u>	<u>0</u>	<u>847</u>	<u>0</u>	<u>1078</u>
P 2 <u>5</u>	<u>373</u>	<u>3</u>	<u>1025</u>	<u>5</u>	<u>857</u>	<u>3</u>	<u>1103</u>
P 3 <u>10</u>	<u>481</u>	<u>6</u>	<u>1051</u>	<u>10</u>	<u>894</u>	<u>6</u>	<u>1113</u>
P 4 <u>15</u>	<u>572</u>	<u>9</u>	<u>1063</u>	<u>15</u>	<u>932</u>	<u>9</u>	<u>1117</u>
P 5 <u>20</u>	<u>649</u>	<u>12</u>	<u>1075</u>	<u>20</u>	<u>962</u>	<u>12</u>	<u>1120</u>
P 6 <u>25</u>	<u>717</u>	<u>15</u>	<u>1084</u>	<u>25</u>	<u>987</u>	<u>15</u>	<u>1121</u>
P 7 <u>30</u>	<u>772</u>	<u>18</u>	<u>1089</u>	<u>30</u>	<u>1008</u>	<u>18</u>	<u>1122</u>
P 8		<u>21</u>	<u>1094</u>	<u>35</u>	<u>1025</u>	<u>21</u>	<u>1123</u>
P 9		<u>24</u>	<u>1099</u>	<u>40</u>	<u>1040</u>	<u>24</u>	<u>1125</u>
P10		<u>27</u>	<u>1104</u>	<u>45</u>	<u>1053</u>	<u>27</u>	<u>1127</u>
P11		<u>30</u>	<u>1107</u>	<u>50</u>	<u>1063</u>	<u>30</u>	<u>1129</u>
P12		<u>33</u>	<u>1110</u>	<u>55</u>	<u>1073</u>	<u>33</u>	<u>1130</u>
P13		<u>36</u>	<u>1113</u>	<u>60</u>	<u>1078</u>	<u>36</u>	<u>1131</u>
P14		<u>39</u>	<u>1116</u>			<u>39</u>	<u>1132</u>
P15		<u>42</u>	<u>1118</u>			<u>42</u>	<u>1133</u>
P16		<u>45</u>	<u>1120</u>			<u>45</u>	<u>1133</u>
P17						<u>48</u>	<u>1134</u>
P18						<u>51</u>	<u>1134</u>
P19						<u>54</u>	<u>1134</u>
P20						<u>57</u>	<u>1135</u>
						<u>60</u>	<u>1135</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 10/8/81 Recorder No. 1563 Capacity 4200 Test Ticket No. 15023
 Location 3352 Ft. 118
 Clock No. - Elevation 1749 Derrick Floor Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1766 P.S.I.	Open Tool	4:30P M	
B First Initial Flow Pressure	266 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	772 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1120 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	847 P.S.I.	Final Closed-in Pressure	90 Mins.	93 Mins.
F Second Final Flow Pressure	1078 P.S.I.			
G Final Closed-in Pressure	1140 P.S.I.			
H Final Hydrostatic Mud	1757 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>31</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	Press.	Point	Press.	Point	Press.	Point	Press.
Mins.		Minutes		Minutes		Minutes	
P 1						63	1136
P 2						66	1136
P 3						69	1136
P 4						72	1136
P 5						75	1137
P 6						78	1137
P 7						81	1137
P 8						84	1137
P 9						87	1137
P10						90	1138
P11						93	1140
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 15023
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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1850	1766	PSI
(B) First Initial Flow Pressure	258	266	PSI
(C) First Final Flow Pressure	772	772	PSI
(D) Initial Closed-in Pressure	1132	1120	PSI
(E) Second Initial Flow Pressure	857	847	PSI
(F) Second Final Flow Pressure	1069	1078	PSI
(G) Final Closed-in Pressure	1132	1140	PSI
(H) Final Hydrostatic Mud	1840	1757	PSI