



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Graham - Michaelis Corporation Lease & Well No. Erisken #1-3
Elevation 1751 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 972
Date 12/7/78 Sec. 3 Twp. 22S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra

Formation Test No. 1 Interval Tested from 3126' ft. to 3170' ft. Total Depth 3170' ft.

Packer Depth 3121 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3126 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3160 ft. Recorder Number 1563 Cap. 4200

Bottom Recorder Depth (Outside) 3163 ft. Recorder Number 1565 Cap. 3150

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

Drilling Contractor Red Tiger Rig # 1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 42 Weight Pipe Length 957 I. D. 2.7 in.

Weight 10.0 Water Loss 6.6 cc. Drill Pipe Length 2191 I. D. 3.8 in.

Chlorides 68,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 in.

Jars: Make -- Serial Number -- Anchor Length 44 ft. Size 5 1/2 in.

Did Well Flow? Yes 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 - in.

Blow: Strong blow throughout flow periods. Gas to surface in two minutes. See attached sheet for gas measurements.

Recovered 130 ft. of gas cut mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 4:55 ~~A.M.~~ P.M. Time Started Off Bottom 7:50 ~~A.M.~~ P.M. Maximum Temperature 100

Initial Hydrostatic Pressure (A) 1639 P.S.I.

Initial Flow Period Minutes 30 (B) 248 P.S.I. to (C) 235 P.S.I.

Initial Closed In Period Minutes 45 (D) 1253 P.S.I.

Final Flow Period Minutes 40 (E) 248 P.S.I. to (F) 233 P.S.I.

Final Closed In Period Minutes 60 (G) 1251 P.S.I.

Final Hydrostatic Pressure (H) 1629 P.S.I.



Home Office: Wichita, Kansas 67201
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GAS FLOW REPORT

Date 12/7/78 Ticket 972 Company Graham - Michaelis Corporation
Well Name and No. Eriksen #1-3 Dst No. 1 Interval Tested 3126'-3170'
County Stafford State Kansas Sec. 3 Twp. 22S Rg. 11W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in two minutes. PRE FLOW						
	10 min.	15 lbs.	1½" orifice			1,023,000 CFPD
	20 min.	15 lbs.	1½" orifice			1,023,000 CFPD
	28 min.	15 lbs.	1½" orifice			1,023,000 CFPD

SECOND FLOW

	10 min.	13 lbs.	1½" orifice			937,000 CFPD
	20 min.	13 lbs.	1½" orifice			937,000 CFPD
	30 min.	13 lbs.	1½" orifice			937,000 CFPD
	40 min.	13 lbs.	1½" orifice			937,000 CFPD

GAS BOTTLE

Serial No. 621 Date Bottle Filled 12/7/78 Date to be Invoiced 12/7/78

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Graham - Michaelis Corporation

Authorized by Bob Hammond

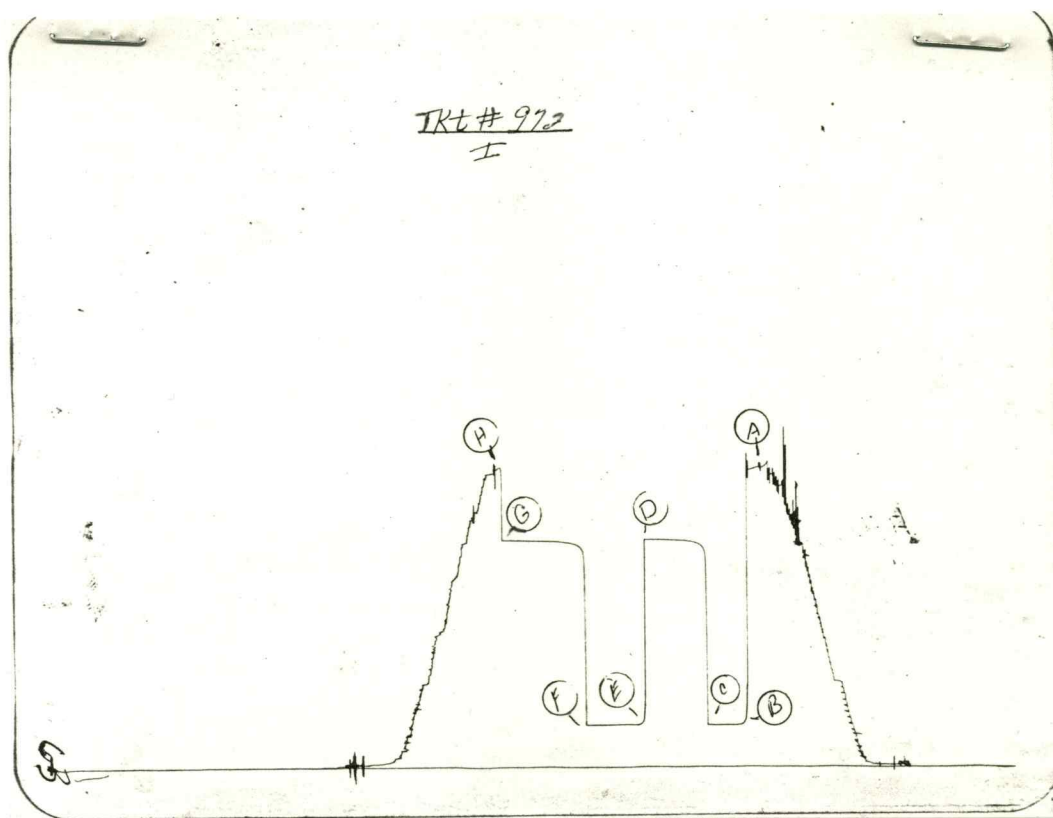
WESTERN TESTING CO., INC.

Pressure Data

Date 12/7/78 Test Ticket No. 972
 Recorder No. 1563 Capacity 4200 Location 3160 Ft.
 Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 100 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1639 P.S.I. Open Tool 4:55P M
 B First Initial Flow Pressure 248 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 235 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 1253 P.S.I. Second Flow Pressure 40 Mins. 40 Mins.
 E Second Initial Flow Pressure 248 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 233 P.S.I.
 G Final Closed-in Pressure 1251 P.S.I.
 H Final Hydrostatic Mud 1629 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>8</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>248</u>	<u>0</u>	<u>235</u>	<u>0</u>	<u>248</u>	<u>0</u>	<u>233</u>
P 2 <u>5</u>	<u>235</u>	<u>3</u>	<u>1200</u>	<u>5</u>	<u>235</u>	<u>3</u>	<u>1188</u>
P 3 <u>10</u>	<u>235</u>	<u>6</u>	<u>1226</u>	<u>10</u>	<u>233</u>	<u>6</u>	<u>1217</u>
P 4 <u>15</u>	<u>235</u>	<u>9</u>	<u>1236</u>	<u>15</u>	<u>233</u>	<u>9</u>	<u>1228</u>
P 5 <u>20</u>	<u>235</u>	<u>12</u>	<u>1241</u>	<u>20</u>	<u>233</u>	<u>12</u>	<u>1234</u>
P 6 <u>25</u>	<u>235</u>	<u>15</u>	<u>1243</u>	<u>25</u>	<u>233</u>	<u>15</u>	<u>1238</u>
P 7 <u>30</u>	<u>235</u>	<u>18</u>	<u>1245</u>	<u>30</u>	<u>233</u>	<u>18</u>	<u>1241</u>
P 8		<u>21</u>	<u>1247</u>	<u>35</u>	<u>233</u>	<u>21</u>	<u>1243</u>
P 9		<u>24</u>	<u>1249</u>	<u>40</u>	<u>233</u>	<u>24</u>	<u>1245</u>
P10		<u>27</u>	<u>1250</u>			<u>27</u>	<u>1245</u>
P11		<u>30</u>	<u>1250</u>			<u>30</u>	<u>1245</u>
P12		<u>33</u>	<u>1251</u>			<u>33</u>	<u>1245</u>
P13		<u>36</u>	<u>1251</u>			<u>36</u>	<u>1245</u>
P14		<u>39</u>	<u>1252</u>			<u>39</u>	<u>1245</u>
P15		<u>42</u>	<u>1252</u>			<u>42</u>	<u>1245</u>
P16		<u>45</u>	<u>1253</u>			<u>45</u>	<u>1247</u>
P17						<u>48</u>	<u>1247</u>
P18						<u>51</u>	<u>1247</u>
P19						<u>54</u>	<u>1247</u>
P20						<u>57</u>	<u>1249</u>
						<u>60</u>	<u>1251</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1618	1639 PSI
(B) First Initial Flow Pressure	226	248 PSI
(C) First Final Flow Pressure	226	235 PSI
(D) Initial Closed-in Pressure	1238	1253 PSI
(E) Second Initial Flow Pressure	226	248 PSI
(F) Second Final Flow Pressure	226	233 PSI
(G) Final Closed-in Pressure	1238	1251 PSI
(H) Final Hydrostatic Mud	1607	1629 PSI



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Company Graham - Michaelis Corporation Lease & Well No. Erisken #1-3
Elevation 1751 Kelly Bushing Formation Lansing Effective Pay ----- Ft. Ticket No. 973
Date 12/8/78 Sec. 3 Twp. 22S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra
Formation Test No. 2 Interval Tested from 3170' ft. to 3196' ft. Total Depth 3196' ft.
Packer Depth 3165' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3170' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3186 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3189 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Red Tiger Rig # 1 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 38 Weight Pipe Length 957 I. D. 2.7 in.
Weight 9.4 Water Loss 14.0 cc. Drill Pipe Length 2191 I. D. 3.8 in.
Chlorides 68,000 P.P.M. Test Tool Length 22' in. Tool Size 4 1/2 in.
Jars: Make -- Serial Number -- Anchor Length 26 ft. Size 5 1/2 in.
Did Well Flow? Yes 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 - in.

Blow: Strong blow throughout flow periods. Gas to surface in ten minutes. See attached sheet for gas measurements.

Recovered 100 ft. of watery mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 7:55 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:40 ~~P.M.~~ ^{A.M.} Maximum Temperature 101
Initial Hydrostatic Pressure (A) 1610 P.S.I.
Initial Flow Period Minutes 30 (B) 49 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period Minutes 45 (D) 1203 P.S.I.
Final Flow Period Minutes 60 (E) 45 P.S.I. to (F) 28 P.S.I.
Final Closed In Period Minutes 90 (G) 1197 P.S.I.
Final Hydrostatic Pressure (H) 1583 P.S.I.



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GAS FLOW REPORT

Date 12/8/78 Ticket 973 Company Graham Michaelis Corporation
Well Name and No. Erisken #1-3 Dst No. 2 Interval Tested 3170'-3196'
County Stafford State Kansas Sec. 3 Twp. 22S Rg. 11W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in 10 minutes. PRE FLOW						
10 min.	24"	water 1/2"	orifice			30,700 CFPD
20 min.	24"	water 1/2"	orifice			30,700 CFPD

SECOND FLOW						
10 min.	30"	water 1/2"	orifice			34,300CFPD
20 min.	26"	water 1/2"	orifice			31,900 CFPD
30 min.	26"	water 1/2"	orifice			31,900 CFPD
40 min.	26"	water 1/2"	orifice			31,900 CFPD
50 min.	26"	water 1/2"	orifice			31,900 CFPD
60 min.	26"	water 1/2"	orifice			31,900 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled 12/8/78 Date to be Invoiced 12/8/78

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount

COMPANY'S NAME Graham - Michaelis Corporation

Authorized by

Rob Hammond

WESTERN TESTING CO., INC.

Pressure Data

Date 12/8/78 Test Ticket No. 973
Recorder No. 1565 Capacity 3150 Location 3189 Ft.
Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1610 P.S.I.	Open Tool	7:55A M	
B First Initial Flow Pressure	49 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	31 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1203 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	45 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	28 P.S.I.			
G Final Closed-in Pressure	1197 P.S.I.			
H Final Hydrostatic Mud	1583 P.S.I.			

PRESSURE BREAKDOWN

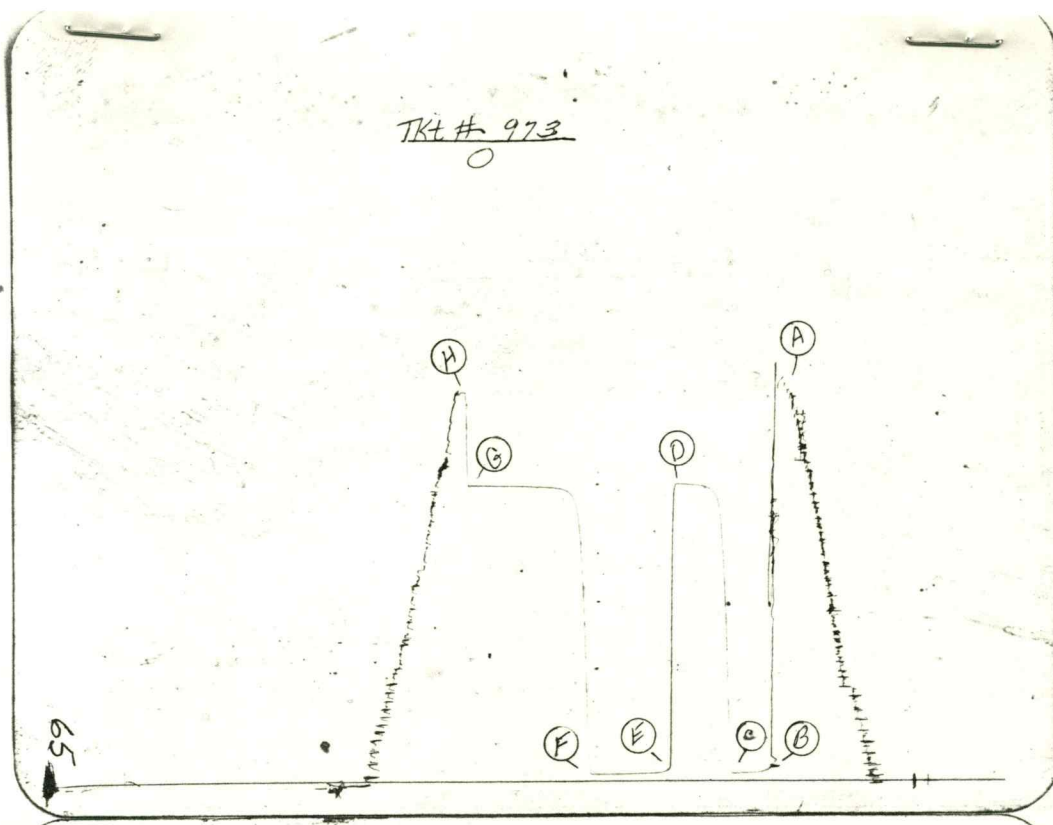
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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>49</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>28</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>208</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>185</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>564</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>564</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>925</u>	<u>15</u>	<u>31</u>	<u>9</u>	<u>944</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>1130</u>	<u>20</u>	<u>31</u>	<u>12</u>	<u>1116</u>
P 6 <u>25</u>	<u>31</u>	<u>15</u>	<u>1171</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>1159</u>
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>1184</u>	<u>30</u>	<u>31</u>	<u>18</u>	<u>1175</u>
P 8		<u>21</u>	<u>1192</u>	<u>35</u>	<u>28</u>	<u>21</u>	<u>1181</u>
P 9		<u>24</u>	<u>1195</u>	<u>40</u>	<u>28</u>	<u>24</u>	<u>1186</u>
P10		<u>27</u>	<u>1197</u>	<u>45</u>	<u>28</u>	<u>27</u>	<u>1187</u>
P11		<u>30</u>	<u>1198</u>	<u>50</u>	<u>28</u>	<u>30</u>	<u>1189</u>
P12		<u>33</u>	<u>1199</u>	<u>55</u>	<u>28</u>	<u>33</u>	<u>1190</u>
P13		<u>36</u>	<u>2000</u>	<u>60</u>	<u>28</u>	<u>36</u>	<u>1191</u>
P14		<u>39</u>	<u>2000</u>			<u>39</u>	<u>1193</u>
P15		<u>42</u>	<u>2002</u>			<u>42</u>	<u>1194</u>
P16		<u>45</u>	<u>1203</u>			<u>45</u>	<u>1195</u>
P17						<u>48</u>	<u>1195</u>
P18						<u>51</u>	<u>1195</u>
P19						<u>54</u>	<u>1195</u>
P20						<u>57</u>	<u>1195</u>
						<u>60</u>	<u>1195</u>

WESTERN TESTING CO., INC. Pressure Data

Date 12/8/78
 Test Ticket No. 973
 Order No. 1565 Capacity 3150 Location 3189 Ft.
 Check No. -- Elevation 1751 Kelly Bushing Well Temperature 101 °F
 Time Given 7:55A M Time Computed
 Initial Hydrostatic Mud 1610 P.S.I. Open Tool
 First Initial Flow Pressure 49 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 31 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 Initial Closed-in Pressure 1203 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 Second Initial Flow Pressure 45 P.S.I. Final Closed-in Pressure 90 Mins. 90 Mins.
 Second Final Flow Pressure 28 P.S.I.
 Final Closed-in Pressure 1197 P.S.I.
 Final Hydrostatic Mud 1583 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>30</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						63	1195
P 2						66	1195
P 3						69	1196
P 4						72	1197
P 5						75	1197
P 6						78	1197
P 7						81	1197
P 8						84	1197
P 9						87	1197
P10						90	1197
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1560	1610	PSI
(B) First Initial Flow Pressure	30	49	PSI
(C) First Final Flow Pressure	30	31	PSI
(D) Initial Closed-in Pressure	1173	1203	PSI
(E) Second Initial Flow Pressure	30	45	PSI
(F) Second Final Flow Pressure	30	28	PSI
(G) Final Closed-in Pressure	1173	1197	PSI
(H) Final Hydrostatic Mud	1552	1583	PSI



Home Office: Wichita, Kansas 67201

P. O. Box 1599

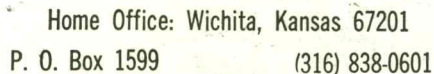
(316) 838-0601

Company Graham -Michaelis Corporation Lease & Well No. Erisken #1-3
Elevation 1751 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 974
Date 12/9/78 Sec. 3 Twp. 22S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra
Formation Test No. 3 Interval Tested from 3240' ft. to 3258' ft. Total Depth 3258' ft.
Packer Depth 3235 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3240 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3248 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3251 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor Red Tiger Rig # 1 Drill Collar Length -- I. D. -- in.
Mud Type starch Viscosity 40 Weight Pipe Length 957 I. D. 2.7 in.
Weight 9.5 Water Loss 8.4 cc. Drill Pipe Length 2261 I. D. 3.8 in.
Chlorides 68,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 18' ft. Size 5 1/2 OD in.
Did Well Flow? Yes 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: Gas to surface in one minute. Gauged 3,880,000 CFPD (Max). Mud to surface in 11 minutes on second opening.

Recovered 90 ft. of muddy water
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s) 1:55 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:25 ~~P.M.~~ ^{A.M.} Maximum Temperature 99
Initial Hydrostatic Pressure (A) 1673 P.S.I.
Initial Flow Period Minutes 30 (B) 579 P.S.I. to (C) 651 P.S.I.
Initial Closed In Period Minutes 45 (D) 1274 P.S.I.
Final Flow Period Minutes 30 (E) 577 P.S.I. to (F) 690 P.S.I.
Final Closed In Period Minutes 45 (G) 1271 P.S.I.
Final Hydrostatic Pressure (H) 1637 P.S.I.



Date 12/9/78 Ticket 974 Company Graham - Michaelis Corporation
Well Name and No. Erisken #1-3 Dst No. 3 Interval Tested 3240'-3258'
County Stafford State Kansas Sec. 3 Twp. 22S Rg. 11W

SECOND FLOW

GAS BOTTLE

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

COMPANY'S NAME Graham - Michaelis Corporation

WESTERN TESTING CO., INC.

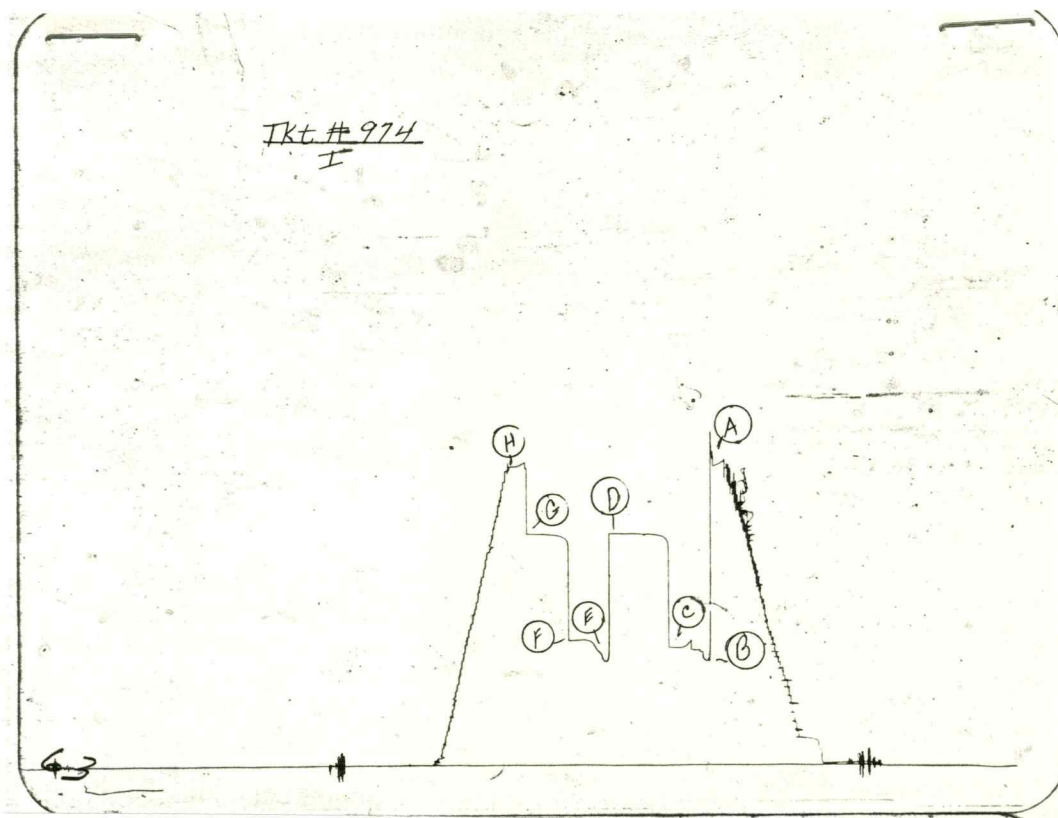
Pressure Data

Date 12/9/78 Test Ticket No. 974
 Recorder No. 1563 Capacity 4200 Location 3248 Ft.
 Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1673</u> P.S.I.	Open Tool	<u>1:55A</u> M	
B First Initial Flow Pressure	<u>579</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>651</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1274</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>577</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>690</u> P.S.I.			
G Final Closed-in Pressure	<u>1271</u> P.S.I.			
H Final Hydrostatic Mud	<u>1637</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>579</u>	<u>0</u>	<u>651</u>	<u>0</u>	<u>577</u>	<u>0</u>	<u>690</u>
P 2 <u>5</u>	<u>628</u>	<u>3</u>	<u>1251</u>	<u>5</u>	<u>606</u>	<u>3</u>	<u>1245</u>
P 3 <u>10</u>	<u>638</u>	<u>6</u>	<u>1262</u>	<u>10</u>	<u>655</u>	<u>6</u>	<u>1257</u>
P 4 <u>15</u>	<u>666</u>	<u>9</u>	<u>1268</u>	<u>15</u>	<u>691</u>	<u>9</u>	<u>1264</u>
P 5 <u>20</u>	<u>651</u>	<u>12</u>	<u>1270</u>	<u>20</u>	<u>694</u>	<u>12</u>	<u>1268</u>
P 6 <u>25</u>	<u>651</u>	<u>15</u>	<u>1271</u>	<u>25</u>	<u>689</u>	<u>15</u>	<u>1270</u>
P 7 <u>30</u>	<u>651</u>	<u>18</u>	<u>1272</u>	<u>30</u>	<u>690</u>	<u>18</u>	<u>1271</u>
P 8		<u>21</u>	<u>1272</u>			<u>21</u>	<u>1271</u>
P 9		<u>24</u>	<u>1272</u>			<u>24</u>	<u>1271</u>
P10		<u>27</u>	<u>1272</u>			<u>27</u>	<u>1271</u>
P11		<u>30</u>	<u>1272</u>			<u>30</u>	<u>1271</u>
P12		<u>33</u>	<u>1274</u>			<u>33</u>	<u>1271</u>
P13		<u>36</u>	<u>1274</u>			<u>36</u>	<u>1271</u>
P14		<u>39</u>	<u>1274</u>			<u>39</u>	<u>1271</u>
P15		<u>42</u>	<u>1274</u>			<u>42</u>	<u>1271</u>
P16		<u>45</u>	<u>1274</u>			<u>45</u>	<u>1271</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1670	1673 PSI
(B) First Initial Flow Pressure	570	579 PSI
(C) First Final Flow Pressure	644	651 PSI
(D) Initial Closed-in Pressure	1259	1274 PSI
(E) Second Initial Flow Pressure	570	577 PSI
(F) Second Final Flow Pressure	676	690 PSI
(G) Final Closed-in Pressure	1259	1271 PSI
(H) Final Hydrostatic Mud	1649	1637 PSI



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Graham - Michaelis Corporation Lease & Well No. Eriksen #1-3
Elevation 1751 Kelly Bushing Formation Lansing I Zone Effective Pay -- Ft. Ticket No. 975
Date 12/9/78 Sec. 3 Twp. 22 S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra
Formation Test No. 4 Interval Tested from 3261' ft. to 3280' ft. Total Depth 3280' ft.
Packer Depth 3256 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3261 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3270 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3273 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Red Tiger Rig # 1 Drill Collar Length -- I. D. -- in.
Mud Type starch Viscosity 41 Weight Pipe Length 957 I. D. 2.7 in.
Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 2282 I. D. 3.8 in.
Chlorides 67,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 19' 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 - in.

Blow: Strong blow throughout flow periods.

Recovered 100 ft. of gas cut and dead oil cut mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

TIGHT HOLE

Remarks: -

Time Set Packer(s) 5:20 ~~A.M.~~ P.M. Time Started Off Bottom 9:05 ~~A.M.~~ P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1692 P.S.I.
Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 54 P.S.I.
Initial Closed In Period Minutes 45 (D) 960 P.S.I.
Final Flow Period Minutes 60 (E) 91 P.S.I. to (F) 80 P.S.I.
Final Closed In Period Minutes 90 (G) 944 P.S.I.
Final Hydrostatic Pressure (H) 1693 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/9/78 Recorder No. 1563 Capacity 4200 Test Ticket No. 975
 Clock No. -- Elevation 1751 Kelly Bushing Location 3270 Ft. Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1692	P.S.I.	5:20P	M
B First Initial Flow Pressure	63	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	54	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	960	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	91	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	80	P.S.I.		
G Final Closed-in Pressure	944	P.S.I.		
H Final Hydrostatic Mud	1693	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: 15 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: 30 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>63</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>80</u>
P 2 <u>5</u>	<u>52</u>	<u>3</u>	<u>63</u>	<u>5</u>	<u>78</u>	<u>3</u>	<u>91</u>
P 3 <u>10</u>	<u>50</u>	<u>6</u>	<u>91</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>112</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>138</u>	<u>15</u>	<u>73</u>	<u>9</u>	<u>149</u>
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>203</u>	<u>20</u>	<u>73</u>	<u>12</u>	<u>194</u>
P 6 <u>25</u>	<u>52</u>	<u>15</u>	<u>297</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>256</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>409</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>328</u>
P 8		<u>21</u>	<u>536</u>	<u>35</u>	<u>74</u>	<u>21</u>	<u>420</u>
P 9		<u>24</u>	<u>649</u>	<u>40</u>	<u>75</u>	<u>24</u>	<u>528</u>
P10		<u>27</u>	<u>738</u>	<u>45</u>	<u>76</u>	<u>27</u>	<u>604</u>
P11		<u>30</u>	<u>800</u>	<u>50</u>	<u>77</u>	<u>30</u>	<u>660</u>
P12		<u>33</u>	<u>843</u>	<u>55</u>	<u>79</u>	<u>33</u>	<u>702</u>
P13		<u>36</u>	<u>877</u>	<u>60</u>	<u>80</u>	<u>36</u>	<u>738</u>
P14		<u>39</u>	<u>909</u>			<u>39</u>	<u>768</u>
P15		<u>42</u>	<u>930</u>			<u>42</u>	<u>791</u>
P16		<u>45</u>	<u>960</u>			<u>45</u>	<u>813</u>
P17						<u>48</u>	<u>826</u>
P18						<u>51</u>	<u>843</u>
P19						<u>54</u>	<u>855</u>
P20						<u>57</u>	<u>866</u>
						<u>60</u>	<u>874</u>

WESTERN TESTING CO., INC.

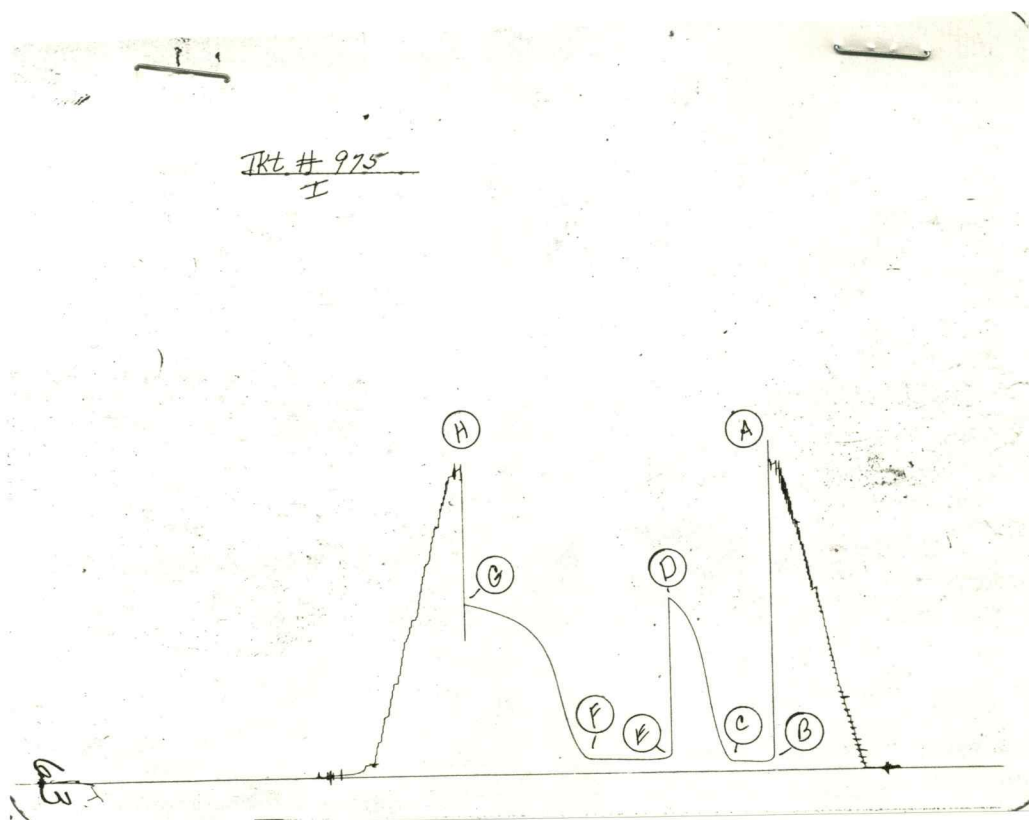
Pressure Data

Date 12/9/78 Test Ticket No. 975
 Recorder No. 1563 Capacity 4200 Location 3270 Ft.
 Casing No. -- Elevation 1751 Kelly Bushing Well Temperature 100 °F

Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>1692</u> P.S.I.		<u>5:20P</u> M	
First Initial Flow Pressure	<u>63</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>54</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
Initial Closed-in Pressure	<u>960</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Initial Flow Pressure	<u>91</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
Second Final Flow Pressure	<u>80</u> P.S.I.			
Final Closed-in Pressure	<u>944</u> P.S.I.			
Final Hydrostatic Mud	<u>1693</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>30</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						63	885
P 2						66	894
P 3						69	900
P 4						72	909
P 5						75	917
P 6						78	923
P 7						81	930
P 8						84	934
P 9						87	940
P10						90	944
P11							
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	1670	1692 PSI
(B) First Initial Flow Pressure	53	63 PSI
(C) First Final Flow Pressure	64	54 PSI
(D) Initial Closed-in Pressure	963	960 PSI
(E) Second Initial Flow Pressure	75	91 PSI
(F) Second Final Flow Pressure	75	80 PSI
(G) Final Closed-in Pressure	931	944 PSI
(H) Final Hydrostatic Mud	1660	1693 PSI



Home Office: Wichita, Kansas 67201
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Company Graham - Michaelis Corporation Lease & Well No. Eriksen #1-3
Elevation 1751 Kelly Bushing Formation Lansing J & K Zones Effective Pay -- Ft. Ticket No. 1436
Date 12/10/78 Sec. 3 Twp. 22S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra
Formation Test No. 5 Interval Tested from 3280' ft. to 3335' ft. Total Depth 3335' ft.
Packer Depth 3275' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3280' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3325 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3328 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Red Tiger Rig # 1 Drill Collar Length -- I. D. -- in.
Mud Type starch Viscosity 39 Weight Pipe Length 925 I. D. 2.7 in.
Weight 9.5 Water Loss 8.4 cc. Drill Pipe Length 2333 I. D. 3.8 in.
Chlorides 66,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 55 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 FH in.

Blow: Weak blow throughout flow periods.

Recovered 45 ft. of slightly oil and gas cut mud

Recovered 160 ft. of slightly gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:30 A.M. Time Started Off Bottom 3:15 P.M. Maximum Temperature 96
Initial Hydrostatic Pressure (A) 1696 P.S.I.
Initial Flow Period Minutes 30 (B) 69 P.S.I. to (C) 84 P.S.I.
Initial Closed In Period Minutes 45 (D) 1223 P.S.I.
Final Flow Period Minutes 60 (E) 132 P.S.I. to (F) 128 P.S.I.
Final Closed In Period Minutes 90 (G) 1211 P.S.I.
Final Hydrostatic Pressure (H) 1665 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/10/78 Test Ticket No. 1436
 Recorder No. 1563 Capacity 4200 Location 3325 Ft.
 Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1696	P.S.I.	11:30A	M
B First Initial Flow Pressure	69	P.S.I.	30	Mins.
C First Final Flow Pressure	84	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1223	P.S.I.	60	Mins.
E Second Initial Flow Pressure	132	P.S.I.	90	Mins.
F Second Final Flow Pressure	128	P.S.I.		
G Final Closed-in Pressure	1211	P.S.I.		
H Final Hydrostatic Mud	1665	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>30</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>69</u>	<u>0</u>	<u>84</u>	<u>0</u>	<u>132</u>	<u>0</u>	<u>128</u>
P 2 <u>5</u>	<u>69</u>	<u>3</u>	<u>91</u>	<u>5</u>	<u>110</u>	<u>3</u>	<u>136</u>
P 3 <u>10</u>	<u>69</u>	<u>6</u>	<u>121</u>	<u>10</u>	<u>106</u>	<u>6</u>	<u>157</u>
P 4 <u>15</u>	<u>71</u>	<u>9</u>	<u>246</u>	<u>15</u>	<u>103</u>	<u>9</u>	<u>218</u>
P 5 <u>20</u>	<u>74</u>	<u>12</u>	<u>746</u>	<u>20</u>	<u>103</u>	<u>12</u>	<u>237</u>
P 6 <u>25</u>	<u>78</u>	<u>15</u>	<u>1034</u>	<u>25</u>	<u>108</u>	<u>15</u>	<u>666</u>
P 7 <u>30</u>	<u>84</u>	<u>18</u>	<u>1091</u>	<u>30</u>	<u>110</u>	<u>18</u>	<u>934</u>
P 8		<u>21</u>	<u>1126</u>	<u>35</u>	<u>114</u>	<u>21</u>	<u>1006</u>
P 9		<u>24</u>	<u>1150</u>	<u>40</u>	<u>116</u>	<u>24</u>	<u>1046</u>
P10		<u>27</u>	<u>1169</u>	<u>45</u>	<u>118</u>	<u>27</u>	<u>1074</u>
P11		<u>30</u>	<u>1186</u>	<u>50</u>	<u>120</u>	<u>30</u>	<u>1097</u>
P12		<u>33</u>	<u>1194</u>	<u>55</u>	<u>124</u>	<u>33</u>	<u>1112</u>
P13		<u>36</u>	<u>1204</u>	<u>60</u>	<u>128</u>	<u>36</u>	<u>1124</u>
P14		<u>39</u>	<u>1211</u>			<u>39</u>	<u>1135</u>
P15		<u>42</u>	<u>1217</u>			<u>42</u>	<u>1146</u>
P16		<u>45</u>	<u>1223</u>			<u>45</u>	<u>1154</u>
P17						<u>48</u>	<u>1162</u>
P18						<u>51</u>	<u>1167</u>
P19						<u>54</u>	<u>1173</u>
P20						<u>57</u>	<u>1177</u>
						<u>60</u>	<u>1181</u>

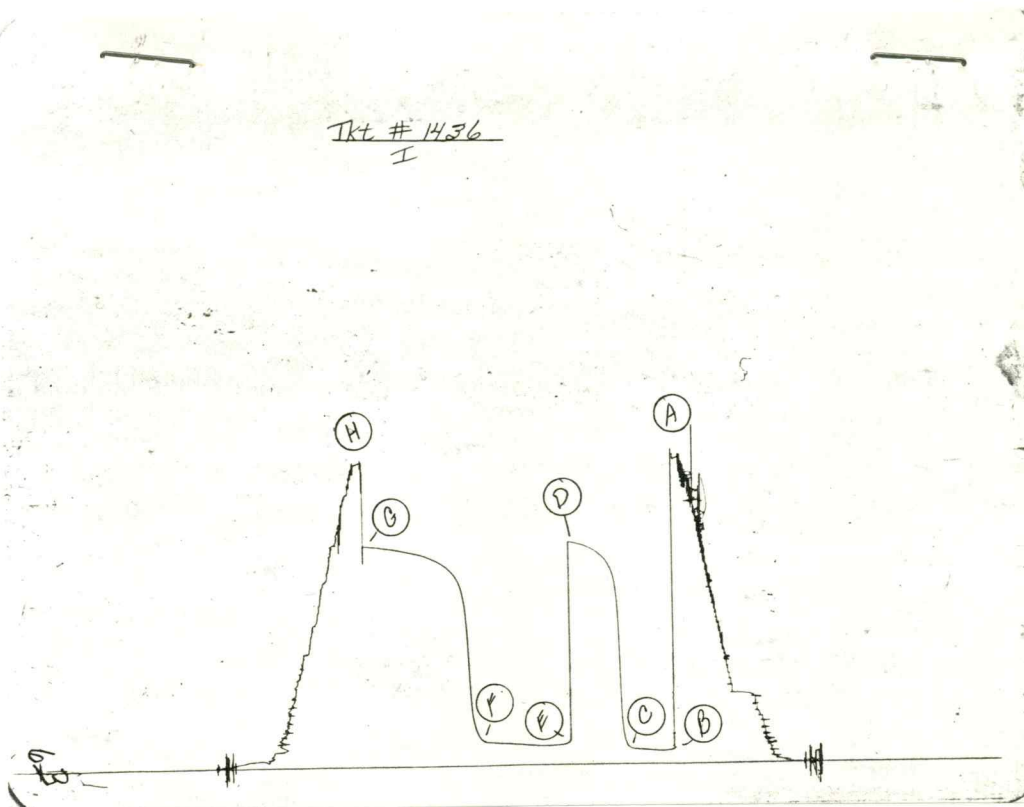
WESTERN TESTING CO., INC.
Pressure Data

Date 12/10/78 Test Ticket No. 1436
 Recorder No. 1563 Capacity 4200 Location 3325 Ft.
 Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1696</u> P.S.I.	Open Tool	<u>11:30A</u> M	
B First Initial Flow Pressure	<u>69</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>84</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1223</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>132</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>128</u> P.S.I.			
G Final Closed-in Pressure	<u>1211</u> P.S.I.			
H Final Hydrostatic Mud	<u>1665</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>30</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>63</u>	<u>1186</u>
P 2						<u>66</u>	<u>1190</u>
P 3						<u>69</u>	<u>1194</u>
P 4						<u>72</u>	<u>1196</u>
P 5						<u>75</u>	<u>1200</u>
P 6						<u>78</u>	<u>1205</u>
P 7						<u>81</u>	<u>1207</u>
P 8						<u>84</u>	<u>1208</u>
P 9						<u>87</u>	<u>1210</u>
P10						<u>90</u>	<u>1211</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1660	1696	PSI
(B) First Initial Flow Pressure	75	69	PSI
(C) First Final Flow Pressure	86	84	PSI
(D) Initial Closed-in Pressure	1206	1223	PSI
(E) Second Initial Flow Pressure	96	132	PSI
(F) Second Final Flow Pressure	118	128	PSI
(G) Final Closed-in Pressure	1196	1211	PSI
(H) Final Hydrostatic Mud	1639	1665	PSI



Home Office: Wichita, Kansas 67201

P. O. Box 1599

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Company Graham - Michaelis Corporation Lease & Well No. Eriksen #1-3
Elevation 1751 Kelly Bushing Formation Simpson Sand Effective Pay -- Ft. Ticket No. 1438
Date 12/10/78 Sec. 3 Twp. 22S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra

Formation Test No. 7 Interval Tested from 3365' ft. to 3425' ft. Total Depth 3425' ft.

Packer Depth 3360' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3365' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3415 ft. Recorder Number 1563 Cap. 4200

Bottom Recorder Depth (Outside) 3418 ft. Recorder Number 1565 Cap. 3150

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

Drilling Contractor Red Tiger Rig # 1 Drill Collar Length -- I. D. -- in.

Mud Type starch Viscosity 44 Weight Pipe Length 925 I. D. 2.7 in.

Weight 9.4 Water Loss 12.0 cc. Drill Pipe Length 2418 I. D. 3.8 in.

Chlorides 66,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 60' ft. Size 5 1/2 OD + 32' W.P. 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: Weak blow throughout first flow period. No blow on second flow period.

Recovered 40 ft. of oil cut mud (5% oil)

Recovered ft. of TIGHT HOLE

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Hit several bridges while going into hole with test tool.

Time Set Packer(s) 9:15 ~~A.M.~~ P.M. Time Started Off Bottom 1:00 ~~A.M.~~ P.M. Maximum Temperature 99

Initial Hydrostatic Pressure (A) 1751 P.S.I.

Initial Flow Period Minutes 30 (B) 67 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 45 (D) 930 P.S.I.

Final Flow Period Minutes 60 (E) 75 P.S.I. to (F) 58 P.S.I.

Final Closed In Period Minutes 90 (G) 511 P.S.I.

Final Hydrostatic Pressure (H) 1696 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/10/78 Recorder No. 1563 Capacity 4200 Test Ticket No. 1438 Location 3415 Ft.
 Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1751</u> P.S.I.	Open Tool	<u>9:15P</u> M	
B First Initial Flow Pressure	<u>67</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>930</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>75</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>58</u> P.S.I.			
G Final Closed-in Pressure	<u>511</u> P.S.I.			
H Final Hydrostatic Mud	<u>1696</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>30</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>67</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>58</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>67</u>	<u>3</u>	<u>58</u>
P 3 <u>10</u>	<u>50</u>	<u>6</u>	<u>175</u>	<u>10</u>	<u>60</u>	<u>6</u>	<u>63</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>280</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>64</u>
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>381</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>67</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>489</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>71</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>577</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>75</u>
P 8		<u>21</u>	<u>649</u>	<u>35</u>	<u>58</u>	<u>21</u>	<u>77</u>
P 9		<u>24</u>	<u>700</u>	<u>40</u>	<u>58</u>	<u>24</u>	<u>82</u>
P10		<u>27</u>	<u>745</u>	<u>45</u>	<u>58</u>	<u>27</u>	<u>86</u>
P11		<u>30</u>	<u>796</u>	<u>50</u>	<u>58</u>	<u>30</u>	<u>92</u>
P12		<u>33</u>	<u>832</u>	<u>55</u>	<u>58</u>	<u>33</u>	<u>96</u>
P13		<u>36</u>	<u>864</u>	<u>60</u>	<u>58</u>	<u>36</u>	<u>100</u>
P14		<u>39</u>	<u>889</u>			<u>39</u>	<u>105</u>
P15		<u>42</u>	<u>915</u>			<u>42</u>	<u>112</u>
P16		<u>45</u>	<u>930</u>			<u>45</u>	<u>119</u>
P17						<u>48</u>	<u>128</u>
P18						<u>51</u>	<u>138</u>
P19						<u>54</u>	<u>149</u>
P20						<u>57</u>	<u>160</u>

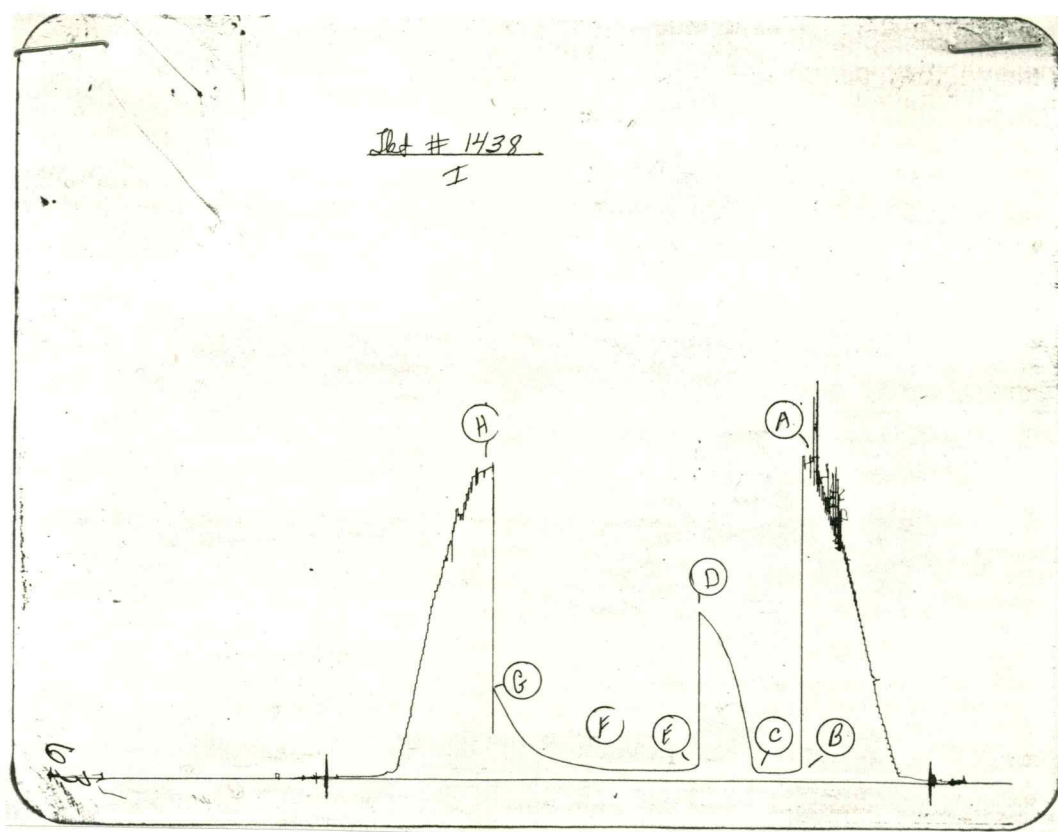
WESTERN TESTING CO., INC. Pressure Data

Date 12/10/78 Test Ticket No. 1438
Recorder No. 1563 Capacity 4200 Location 3415 Ft.
Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 99 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1751</u> P.S.I.	<u>9:15P</u> M	
B First Initial Flow Pressure	<u>67</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>930</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>75</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>58</u> P.S.I.		
G Final Closed-in Pressure	<u>511</u> P.S.I.		
H Final Hydrostatic Mud	<u>1696</u> P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
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>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.							
Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.							
Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.							
P 1						63	207
P 2						66	240
P 3						69	271
P 4						72	293
P 5						75	319
P 6						78	347
P 7						81	385
P 8						84	421
P 9						87	468
P10						90	511
P11							
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	1723	1751	PSI
(B) First Initial Flow Pressure	43	67	PSI
(C) First Final Flow Pressure	43	50	PSI
(D) Initial Closed-in Pressure	921	930	PSI
(E) Second Initial Flow Pressure	53	75	PSI
(F) Second Final Flow Pressure	53	58	PSI
(G) Final Closed-in Pressure	495	511	PSI
(H) Final Hydrostatic Mud	1691	1696	PSI



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Graham - Michaelis Corporation Lease & Well No. Eriksen #1-3
Elevation 1751 Kelly Bushing Formation Arbuckle Effective Pay -- Ft. Ticket No. 1439
Date 12/12/78 Sec. 3 Twp. 22S Range 11W County Stafford State Kansas
Test Approved by Bob Hammond Western Representative Vernon Wondra
Formation Test No. 8 Interval Tested from 3415' ft. to 3460' ft. Total Depth 3460' ft.
Packer Depth 3410 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3415 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3416 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3419 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth = ft. Recorder Number = Cap. =
Drilling Contractor Red Tiger Rig # 1 Drill Collar Length -- I. D. -- in.
Mud Type starch Viscosity 51 Weight Pipe Length 925 I. D. 2.7 in.
Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 2468 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number -- Anchor Length 45' ft. Size 5 1/2 OD + 31' W.P. 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 increased to fair 6' blow by end of first flow period; Second opening-very weak increased to fair 4" blow by end of second flow period.
Recovered 590 ft. of muddy oil Top: 70% oil
Recovered ft. of Middle: 92% oil
Recovered ft. of Bottom: 97% oil
Recovered ft. of TIGHT HOLE
Recovered ft. of
Remarks:

Time Set Packer(s) 6:40 ~~A.M.~~ P.M. Time Started Off Bottom 11:25 ~~A.M.~~ P.M. Maximum Temperature 111
Initial Hydrostatic Pressure (A) 1772 P.S.I.
Initial Flow Period Minutes 30 (B) 60 P.S.I. to (C) 99 P.S.I.
Initial Closed In Period Minutes 45 (D) 1181 P.S.I.
Final Flow Period Minutes 90 (E) 142 P.S.I. to (F) 269 P.S.I.
Final Closed In Period Minutes 120 (G) 1175 P.S.I.
Final Hydrostatic Pressure (H) 1717 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 12/12/78 Test Ticket No. 1439
Recorder No. 1563 Capacity 4200 Location 3416 Ft.
Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1772</u> P.S.I.	Open Tool	<u>6:40P</u> M	
B First Initial Flow Pressure	<u>60</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>99</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1181</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>142</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>269</u> P.S.I.			
G Final Closed-in Pressure	<u>1175</u> P.S.I.			
H Final Hydrostatic Mud	<u>1717</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>18</u> Inc.		Breakdown: <u>40</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>60</u>	<u>0</u>	<u>99</u>	<u>0</u>	<u>142</u>	<u>0</u>	<u>269</u>
P 2 <u>5</u>	<u>41</u>	<u>3</u>	<u>845</u>	<u>5</u>	<u>131</u>	<u>3</u>	<u>1038</u>
P 3 <u>10</u>	<u>60</u>	<u>6</u>	<u>1082</u>	<u>10</u>	<u>138</u>	<u>6</u>	<u>1101</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>1127</u>	<u>15</u>	<u>147</u>	<u>9</u>	<u>1124</u>
P 5 <u>20</u>	<u>69</u>	<u>12</u>	<u>1143</u>	<u>20</u>	<u>153</u>	<u>12</u>	<u>1137</u>
P 6 <u>25</u>	<u>80</u>	<u>15</u>	<u>1154</u>	<u>25</u>	<u>162</u>	<u>15</u>	<u>1146</u>
P 7 <u>30</u>	<u>99</u>	<u>18</u>	<u>1162</u>	<u>30</u>	<u>172</u>	<u>18</u>	<u>1152</u>
P 8		<u>21</u>	<u>1167</u>	<u>35</u>	<u>185</u>	<u>21</u>	<u>1154</u>
P 9		<u>24</u>	<u>1171</u>	<u>40</u>	<u>192</u>	<u>24</u>	<u>1158</u>
P10		<u>27</u>	<u>1173</u>	<u>45</u>	<u>200</u>	<u>27</u>	<u>1162</u>
P11		<u>30</u>	<u>1175</u>	<u>50</u>	<u>211</u>	<u>30</u>	<u>1162</u>
P12		<u>33</u>	<u>1176</u>	<u>55</u>	<u>220</u>	<u>33</u>	<u>1163</u>
P13		<u>36</u>	<u>1177</u>	<u>60</u>	<u>228</u>	<u>36</u>	<u>1164</u>
P14		<u>39</u>	<u>1178</u>	<u>65</u>	<u>235</u>	<u>39</u>	<u>1165</u>
P15		<u>42</u>	<u>1180</u>	<u>70</u>	<u>244</u>	<u>42</u>	<u>1166</u>
P16		<u>45</u>	<u>1181</u>	<u>75</u>	<u>250</u>	<u>45</u>	<u>1167</u>
P17				<u>80</u>	<u>256</u>	<u>48</u>	<u>1167</u>
P18				<u>85</u>	<u>262</u>	<u>51</u>	<u>1168</u>
P19				<u>90</u>	<u>269</u>	<u>54</u>	<u>1168</u>
P20						<u>57</u>	<u>1169</u>
						<u>60</u>	<u>1169</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 12/12/78 Test Ticket No. 1439

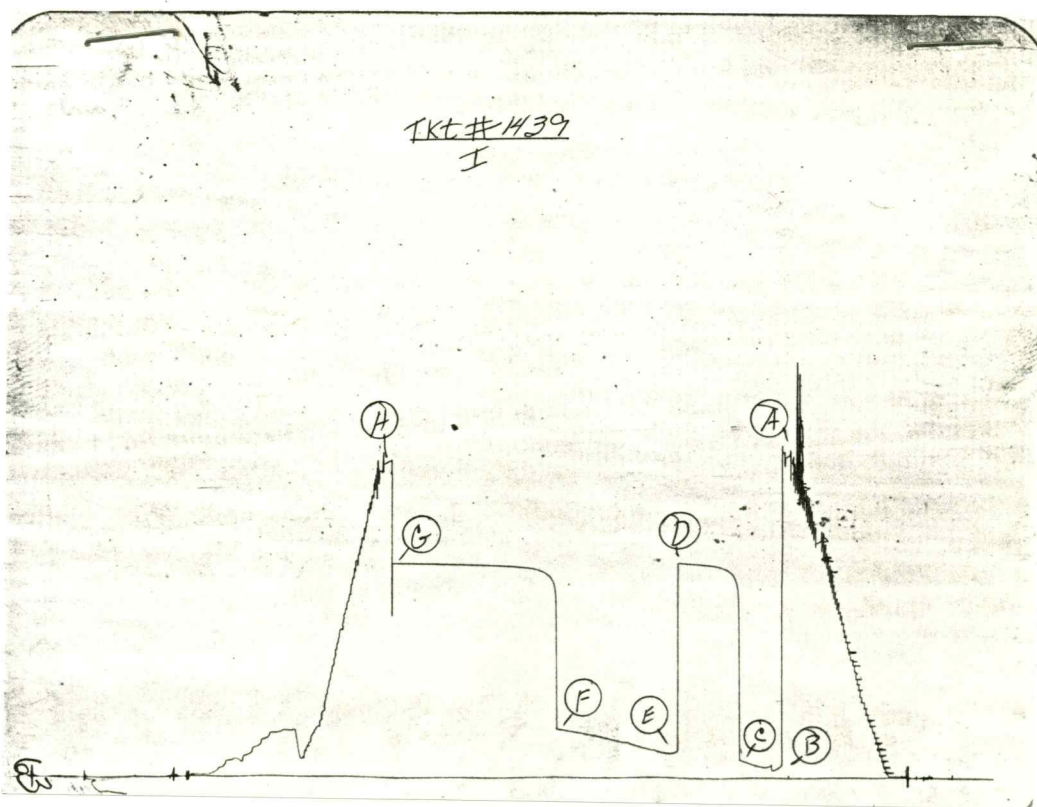
Recorder No. 1563 Capacity 4200 Location 3416 Ft.

Clock No. -- Elevation 1751 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1772</u> P.S.I.	Open Tool	<u>6:40P</u> M	
B First Initial Flow Pressure	<u>60</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>99</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1181</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>142</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>269</u> P.S.I.			
G Final Closed-in Pressure	<u>1175</u> P.S.I.			
H Final Hydrostatic Mud	<u>1717</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>18</u> Inc.		Breakdown: <u>40</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						63	1170
P 2						66	1170
P 3						69	1171
P 4						72	1172
P 5						75	1173
P 6						78	1173
P 7						81	1173
P 8						84	1173
P 9						87	1173
P10						90	1174
P11						93	1175
P12						96	1175
P13						99	1175
P14						102	1175
P15						105	1175
P16						108	1175
P17						111	1175
P18						114	1175
P19						117	1175
P20						120	1175



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1744	1772
(B) First Initial Flow Pressure	32	60
(C) First Final Flow Pressure	86	99
(D) Initial Closed-in Pressure	1175	1181
(E) Second Initial Flow Pressure	118	142
(F) Second Final Flow Pressure	258	269
(G) Final Closed-in Pressure	1175	1175
(H) Final Hydrostatic Mud	1723	1717