



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

Company Graham - Michaelis Corporation Lease & Well No. Seidl #1-4
Elevation 2016 Kelly Bushing Formation Kansas City Effective Pay 2' to 3' Ft. Ticket No. 2172
Date 4/22/79 Sec. 4 Twp. 17S Range 15W County Barton State Kansas
Test Approved by H. J. Groves Western Representative Max Knipe
Formation Test No. 3 Interval Tested from 3473' ft. to 3485' ft. Total Depth 3485' ft.
Packer Depth 3468' ft. Size 6 3/4 in. Packer Depth 3473 ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3477 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3480 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Revlin Drilling Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 10.1 Water Loss 9.6 cc. Drill Pipe Length 3452 I. D. 3.8 in.
Chlorides 96,000 P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 in.
Jars: Make -- Serial Number -- Anchor Length 12' ft. Size 5 1/2 in.
Did Well Flow? Yes - Gas 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 FH in.

Blow: Strong gas to surface in 15 minutes. See attached sheet for gas measurements.

Recovered 835 ft. of clean very gassy oil (42 gravity corrected)
Recovered 180 ft. of gassy muddy oil
Recovered 60 ft. of very heavy mud cut gassy oil
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 6:30 ~~A.M.~~ P.M. Time Started Off Bottom 10:15 ~~A.M.~~ P.M. Maximum Temperature 102
Initial Hydrostatic Pressure (A) 1888 P.S.I.
Initial Flow Period Minutes 30 (B) 162 P.S.I. to (C) 280 P.S.I.
Initial Closed In Period Minutes 45 (D) 474 P.S.I.
Final Flow Period Minutes 60 (E) 345 P.S.I. to (F) 427 P.S.I.
Final Closed In Period Minutes 90 (G) 446 P.S.I.
Final Hydrostatic Pressure (H) 1869 P.S.I.



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GAS FLOW REPORT

Date 4/22/79 Ticket 2171 Company Graham - Michaelis Corporation
Well Name and No. Seidl #1-4 Dst No. 3 Interval Tested 3473'-3485'
County Barton State Kansas Sec. 4 Twp. 17S Rg. 15W

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 6:45 PM PRE FLOW						
	5 min.	11" of water	1/4" orifice			5,600 CFPD
	15 min.	11" of water	1/4" orifice			5,600 CFPD

Tool open 7:45 **SECOND FLOW**

7:55	10 min.	10" of water	1/4" orifice			5,320 CFPD
8:05	20 min.	5" of water	1/4" orifice			3,710 CFPD
8:15	30 min.	Too small	to gauge			

GAS BOTTLE

Serial No. #24 Date Bottle Filled 4/22/79 Date to be Invoiced 4/22/79

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 H. J. Groves

WESTERN TESTING CO., INC.

Pressure Data

Date 4/22/79 Test Ticket No. 2172
 Recorder No. 1563 Capacity 4200 Location 3477 Ft.
 Block No. -- Elevation 2016 Kelly Bushing Well Temperature 102 °F

Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	1888 P.S.I.		6:30P M	
First Initial Flow Pressure	162 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
First Final Flow Pressure	280 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
Initial Closed-in Pressure	474 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
Second Initial Flow Pressure	345 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
Second Final Flow Pressure	427 P.S.I.			
Final Closed-in Pressure	446 P.S.I.			
Final Hydrostatic Mud	1869 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.
1 0	162	0	280	0	345	0	427
2 5	136	3	388	5	338	3	431
3 10	162	6	416	10	358	6	433
4 15	188	9	429	15	371	9	434
5 20	213	12	440	20	381	12	436
6 25	252	15	446	25	392	15	437
7 30	280	18	450	30	401	18	437
8		21	455	35	407	21	438
9		24	459	40	412	24	438
10		27	461	45	416	27	439
11		30	466	50	420	30	440
12		33	468	55	424	33	440
13		36	470	60	427	36	441
14		39	472			39	442
15		42	473			42	443
16		45	474			45	444
17						48	444
18						51	444
19						54	444
20						57	444
						60	444

WESTERN TESTING CO., INC.
Pressure Data

4/22/79

1563

4200

Test Ticket No. 2172
 Location 3477 Ft.
 Well Temperature 102 °F

ler No. 1500 Capacity
2016 Kelly Bushing
No. -- Elevation

	Pressure	
Initial Hydrostatic Mud	1888	P.S.I.
First Initial Flow Pressure	162	P.S.I.
First Final Flow Pressure	280	P.S.I.
Initial Closed-in Pressure	474	P.S.I.
Second Initial Flow Pressure	345	P.S.I.
Second Final Flow Pressure	427	P.S.I.
Final Closed-in Pressure	446	P.S.I.
Final Hydrostatic Mud	1869	P.S.I.

Open Tool
First Flow Pressure
Initial Closed-in Pressure
Second Flow Pressure
Final Closed-in Pressure

Time Given	Time Computed
6:30P	M
30 Mins.	30 Mins.
45 Mins.	45 Mins.
60 Mins.	60 Mins.
90 Mins.	90 Mins.

PRESSURE BREAKDOWN

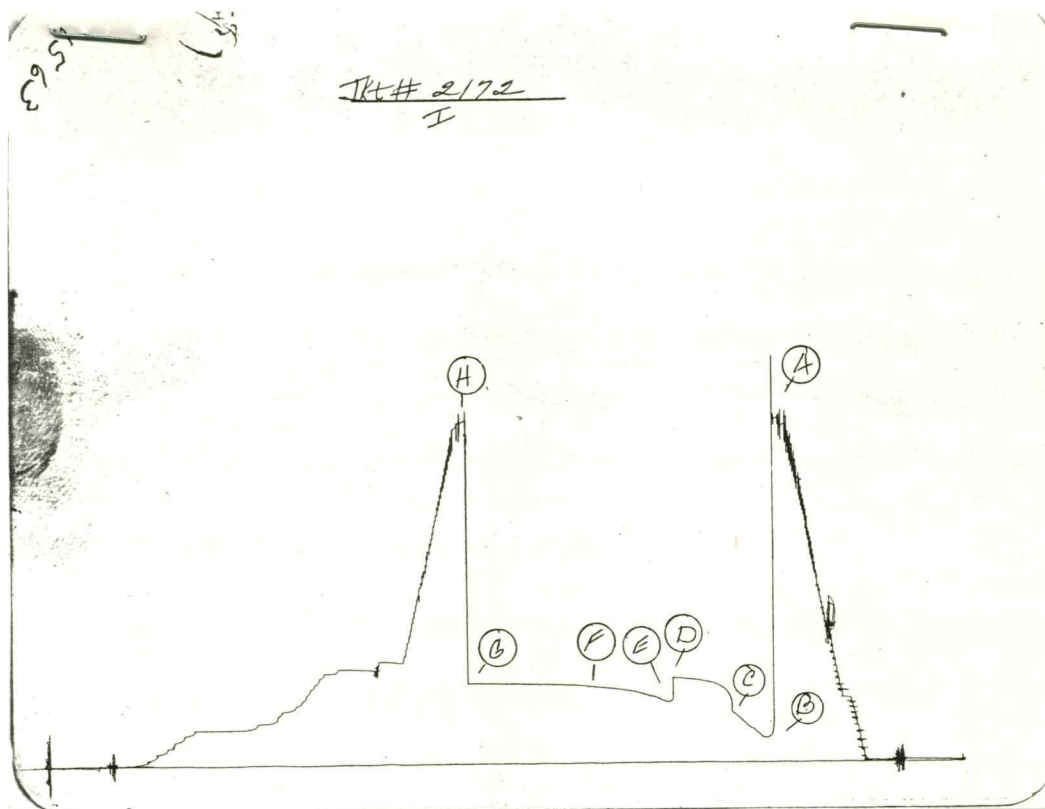
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

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.

[illegible]



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1881	1888
(B) First Initial Flow Pressure	129	162
(C) First Final Flow Pressure	258	280
(D) Initial Closed-in Pressure	463	474
(E) Second Initial Flow Pressure	334	345
(F) Second Final Flow Pressure	409	427
(G) Final Closed-in Pressure	441	446
(H) Final Hydrostatic Mud	1860	1869

PSI

PSI

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Company Graham - Michaelis Corporation Lease & Well No. Seidl #1-4
Elevation 2016 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 2174
Date 4/23/79 Sec. 4 Twp. 17S Range 15W County Barton State Kansas
Test Approved by H. J. Groves Western Representative Max Knipe
Formation Test No. 4 Interval Tested from 3485' ft. to 3531' ft. Total Depth 3531' ft.
Packer Depth 3482' ft. Size 6 3/4 in. Packer Depth 3485' ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3488 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3491 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Revlin Drilling Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
Weight 9.8 Water Loss 6.8 cc. Drill Pipe Length 3464 I. D. 3.8 in.
Chlorides 78,000 P.P.M. Test Tool Length 21' in. Tool Size 5 1/2 in.
Jars: Make -- Serial Number -- Anchor Length 46' 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: 4" decreased and died; 4" down to 3/4" on pre-flow. No blow on second flow; flushed tool--
No help.

Recovered 45 ft. of drilling mud with few spots of oil in top of tool.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:00 --A.M. Time Started Off Bottom 6:30 A.M. Maximum Temperature 104
Initial Hydrostatic Pressure (A) 1852 P.S.I.
Initial Flow Period Minutes 30 (B) 71 P.S.I. to (C) 56 P.S.I.
Initial Closed In Period Minutes 45 (D) 282 P.S.I.
Final Flow Period Minutes 30 (E) 82 P.S.I. to (F) 58 P.S.I.
Final Closed In Period Minutes 45 (G) 93 P.S.I.
Final Hydrostatic Pressure (H) 1850 P.S.I.

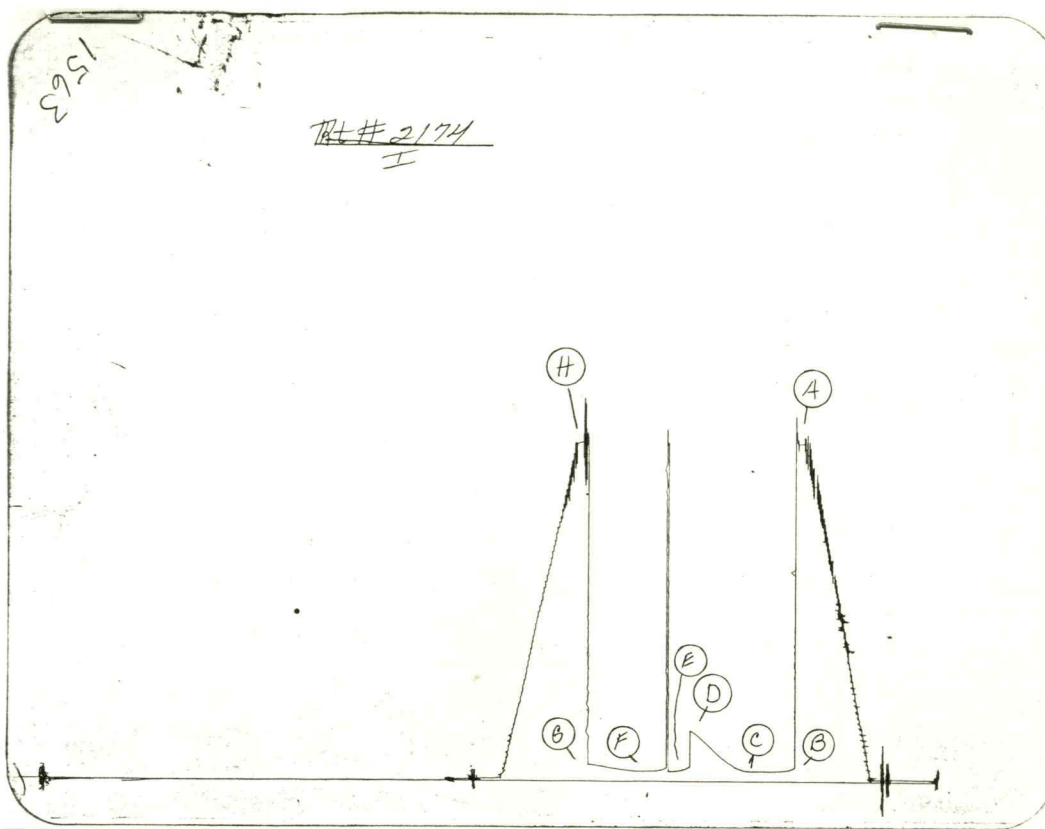
WESTERN TESTING CO., INC.

Pressure Data

Date 4/23/79 Test Ticket No. 2174
 Recorder No. 1563 Capacity 4200 Location 3488 Ft.
 Block No. -- Elevation 2016 Kelly Bushing Well Temperature 104 °F
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 1852 P.S.I. Open Tool 4:00P M
 First Initial Flow Pressure 71 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 56 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 Initial Closed-in Pressure 282 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 Second Initial Flow Pressure 82 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 Second Final Flow Pressure 58 P.S.I.
 Final Closed-in Pressure 93 P.S.I.
 Final Hydrostatic Mud 1850 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.
0	71	0	56	0	82	0	58
1	63	3	56	5	63	3	58
2	58	6	63	10	56	6	58
3	56	9	71	15	56	9	58
4	56	12	82	20	65	12	58
5	56	15	97	25	58	15	61
6	56	18	112	30	58	18	65
7		21	127			21	67
8		24	149			24	71
9		27	170			27	73
10		30	194			30	80
11		33	216			33	84
12		36	235			36	86
13		39	256			39	91
14		42	272			42	92
15		45	282			45	93
16							
17							
18							
19							
20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1839	1852 PSI
(B) First Initial Flow Pressure	43	71 PSI
(C) First Final Flow Pressure	43	56 PSI
(D) Initial Closed-in Pressure	269	282 PSI
(E) Second Initial Flow Pressure	53	82 PSI
(F) Second Final Flow Pressure	64	58 PSI
(G) Final Closed-in Pressure	81	93 PSI
(H) Final Hydrostatic Mud	1839	1850 PSI