



WESTERN TESTING CO., INC.
P.O. BOX 1599 — WICHITA, KANSAS 67201

Graham-Michaelis Corporation
211 N. Broadway
Wichita, Kansas 67202

DATE 10/17/83

WELL REPORT NO.

UNIT NO.

17668

DISTRICT

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR
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WELL NO.	FARM	SECTION	TWP.	RANGE
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#2-34 Smith

Kiowa County, Kansas

34 308 18W

One drill stem test from 4964' to 5010'	(Test 1)	\$ 650.00
Jars		300.00
Safety Joint		65.00
	Total	\$1,015.00

POSTED

\$10.15 DISCOUNT

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER
17668

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
Nº 17668

Elevation 2152 K.B. Formation Miss

Eff. Pay Ft.

District Pratt Date 10-17-83

Customer Order No.

COMPANY NAME Graham - Michaelis Corporation
ADDRESS P.O. Box 247 Wichita KS 67201

LEASE AND WELL NO. Smith #2-34 COUNTY Kiowa STATE Ks Sec. 34 Twp 305 Rge. 18W

Mail Invoice To #2-34 SMITH same

No. Copies Requested req

Co. Name

Address

Mail Charts To

same

No. Copies Requested req

Address

Formation Test No. 1 Interval Tested From 4964 ft. to 5010 ft. Total Depth 5010 ft.

Packer Depth 4959 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4964 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4970 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 4973 ft. Recorder Number 5763 Cap. 5400

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

Drilling Contractor RED TIGER #1 Drill Collar Length — I. D. — in.

Mud Type salt mud/starch Viscosity 49 Weight Pipe Length 1093 I. D. 3.2 in.

Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 3917 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 28 Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number 3922 Anchor Length 46 Size 5 1/2 in.

Did Well Flow? No Reversed Out Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow gas to surface 3 min. See chart.

Recovered 45 ft. of gas cut Drig mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
OCT 18 1983

Time On Location	A.M. P.M.	Time Pick Up Tool	A.M. P.M.	Time Off Location	A.M. P.M.
Time Set Packer(s)	9:25 A.M.	Time Started Off Bottom	12:55 P.M.	Maximum Temperature	120
Initial Hydrostatic Pressure		(A)	2631	P.S.I.	
Initial Flow Period	Minutes 45	(B)	484	P.S.I. to (C)	484 P.S.I.
Initial Closed In Period	Minutes 60	(D)	680	P.S.I.	
Final Flow Period	Minutes 45	(E)	516	P.S.I. to (F)	516 P.S.I.
Final Closed In Period	Minutes 60	(G)	419	P.S.I.	
Final Hydrostatic Pressure		(H)	2553	P.S.I.	

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Alonzo A. Tracy
Signature of Customer or his authorized representative

Western Representative Mike Jett Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>✓ 650.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <u>✓ 300.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>✓ 65.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>✓ 1015.00</u>



Nº 4448

GAS FLOW REPORT

Date 10-17-83 Ticket 17668 Company Graham - Michaelis
 Well Name and No. Smith #2-34 Dst No. 1 Interval Tested 4964-5010
 County Kiowa State KS Sec. 34 Twp. 30S Rg. 18W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
9:25		2"		PSI 9	
:35	10		7#		gas to surface 3 min.
:45	20		7#		1,930,000 BCFPD through 2"
:55	30		8#		1,930,000
10:05	40		8#		2,060,000
:10	45		8#		{ ok

SECOND FLOW

11:10		2"		PSI 9	Cubic Feet Per Day Through 2"
:20	10		9#		2,190,000 "
:30	20		10#		2,310,000
:40	30		10#		2,310,000
:50	40		10#		{
:55	45		10#		ok

GAS BOTTLE

Serial No. #615 Date Bottle Filled 10-17-83 Date to be Invoiced

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 1/2% per month, equal to 18% 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

Authorized by *Al伦n A. May*

WESTERN TESTING CO., INC.

Pressure Data

Date 10-17-83Recorder No. 6246

Capacity

Test Ticket No. 17668Clock No. —

Elevation

Location

Ft.

Point

Pressure

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>25604</u>	P.S.I.	Open Tool	M
B First Initial Flow Pressure	<u>490</u>	P.S.I.	First Flow Pressure	Mins. Mins.
C First Final Flow Pressure	<u>498</u>	P.S.I.	Initial Closed-in Pressure	Mins. Mins.
D Initial Closed-in Pressure	<u>730</u>	P.S.I.	Second Flow Pressure	Mins. Mins.
E Second Initial Flow Pressure	<u>513</u>	P.S.I.	Final Closed-in Pressure	Mins. Mins.
F Second Final Flow Pressure	<u>521</u>	P.S.I.		
G Final Closed-in Pressure	<u>725705</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2543</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In

Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point

Mins.

Press.

P 1 0

490

Point

Minutes

Press.

0

P 2 5

3

498

6085

P 3 10

6

704

704

P 4 15

9

713

713

P 5 20

12

715

715

P 6 25

15

716

716

P 7 30

18

718

718

P 8 35

21

720

720

P 9 40

24

722

722

P10 45

27

723

723

P11 50

30

724

724

P12 55

33

725

725

P13 60

36

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726

P14

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P15

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P17

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P18

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P19

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730

730

P20

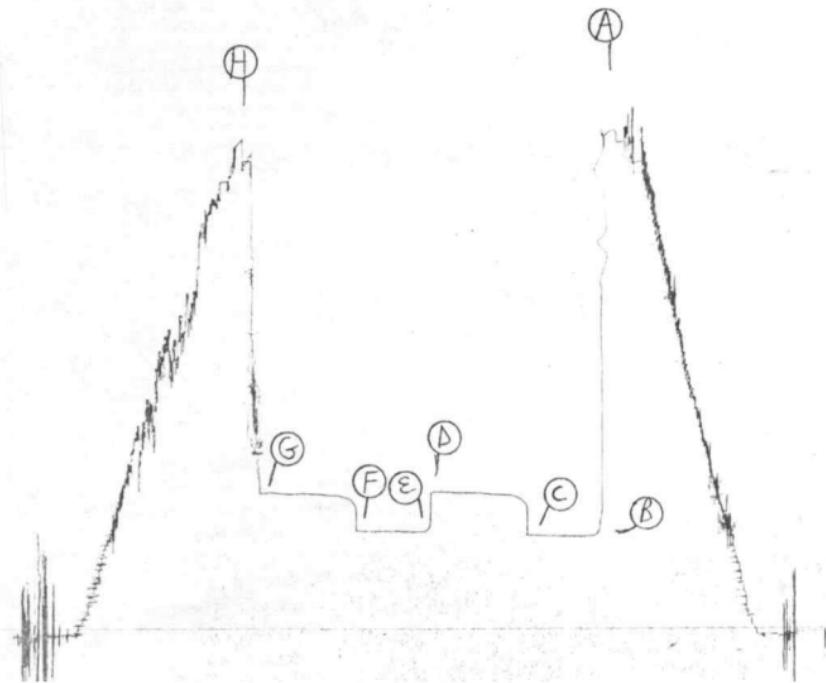
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730

730

TKT. #. 17668

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17668

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/17/83 TICKET #17668
 CUSTOMER: GRAHAM-MICHAELIS CORPORATION LEASE: SMITH
 WELL: 2-34 TEST: 1 GEOLOGIST: G. TRACY
 ELEVATION (KB): 2152 FORMATION: MISSISSIPPI
 SECTION: 34 TOWNSHIP: 30S
 RANGE: 18W COUNTY: KIOWA STATE: KANSAS
 GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 4964 FT TO: 5010 FT TOTAL DEPTH: 5010 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4959 FT SIZE: 6 5/8 IN PACKER DEPTH: 4964 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER #1

MUD TYPE: STARCH VISCOSITY: 49

WEIGHT: 9.5 WATER LOSS (CC): 11.2

CHLORIDES (P.P.M.): 43000

JARS - MAKE: WTC SERIAL NUMBER: 3922

DID WELL FLOW? NO REVERSED OUT?

DRILL COLLAR LENGTH: FT I.D.: IN

WEIGHT PIPE LENGTH: 1093 FT I.D.: 3.2 IN

DRILL PIPE LENGTH: 3917 FT I.D.: 3.8 IN

TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 46 FT SIZE: 5 1/2 O.D. IN

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 X.H. IN

BLOW: STRONG BLOW. GAS TO SURFACE IN 3 MINUTES.

SEE GAS FLOW REPORT.

RECOVERED: 65 FT OF: GAS CUT DRILLING MUD
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 9:25 A.M.

TIME STARTED OFF BOTTOM: 12:55 P.M.

WELL TEMPERATURE: 120 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 2566	PSI		
INITIAL FLOW PERIOD	MIN: 45	(B) 490	PSI	TO (C) 498	PSI
INITIAL CLOSED IN PERIOD	MIN: 57	(D) 730	PSI		
FINAL FLOW PERIOD	MIN: 45	(E) 513	PSI	TO (F) 521	PSI
FINAL CLOSED IN PERIOD	MIN: 57	(G) 725	PSI		
FINAL HYDROSTATIC PRESSURE		(H) 2543	PSI		

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 10/17/83 TICKET #17668
CUSTOMER: GRAHAM-MICHAELIS CORPORATION LEASE: SMITH
WELL: 2-34 TEST: 1 GEOLOGIST: G. TRACY
ELEVATION (KB): 2152 FORMATION: MISSISSIPPI
SECTION: 34 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2566	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	490	PSI
(C)	FIRST FINAL FLOW PRESSURE:	498	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	730	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	513	PSI
(F)	SECOND FINAL FLOW PRESSURE:	521	PSI
(G)	FINAL CLOSED-IN PRESSURE:	725	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2543	PSI
WELL TEMPERATURE:		120	'F
OPEN TOOL: 9:25 A.M.			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	57 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	57 MIN

PRESSURE BREAKDOWN

WESTERN TESTING CO. INC.

GAS FLOW REPORT

DATE: 10/17/83 TICKET #17668
 CUSTOMER: GRAHAM-MICHAELIS CORPORATION LEASE: SMITH
 WELL: 2-34 TEST: 1 GEOLOGIST: G. TRACY
 ELEVATION (KB): 2152 FORMATION: MISSISSIPPI
 SECTION: 34 TOWNSHIP: 30S
 RANGE: 18W COUNTY: KIOWA STATE: KANSAS
 GAUGE SN #6246 RANGE: 5200 CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

3				GAS TO SURFACE
10	WALTER REED	2	7 PSIG	1930000 CFPD
20		2	7 PSIG	1930000 CFPD
30		2	8 PSIG	2060000 CFPD
40		2	8 PSIG	2060000 CFPD
45		2	8 PSIG	2060000 CFPD

SECOND FLOW

10	WALTER REED	2	9 PSIG	2190000 CFPD
20		2	10 PSIG	2310000 CFPD
30		2	10 PSIG	2310000 CFPD
40		2	10 PSIG	2310000 CFPD
45		2	10 PSIG	2310000 CFPD

GAS BOTTLE SN #: 615
 DATE BOTTLE FILLED: 10/17/83
 DATE TO BE INVOICED: 10/17/83



WESTERN TESTING CO., INC.
P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE

10/18/83

Graham-Michaelis Corporation
211 N. Broadway
Wichita, Kansas 67202

WELL REPORT NO.

UNIT NO.

17669

DISTRICT

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR	FARM	SECTION	TWP.	RANGE
WELL NO. #2-34	Smith		Kiowa County, Kansas	34	30S	18W

One drill stem test from 5014" to 5055' (Test 2) Misrun \$400.00
Jars 300.00
Safety Joint 65.00
Total \$765.00

POSTED

DISCOUNT \$7.65	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 17669
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SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 17669

Elevation 2152 K.B. Formation Miss Eff. Pay Ft.

District Pratt Date 10-18-83 Customer Order No
COMPANY NAME Graham - Michaelis Corp. 21 N. Broadway
ADDRESS P.O. Box 247 Wichita, Ks 67201
LEASE AND WELL NO. Smith 2-34 COUNTY Kiowa STATE Ks Sec. 34 Twp. 30S Rge. 18W
Mail Invoice To #2-34 Same No. Copies Requested req
Co. Name SMITH Same Address
Mail Charts To SMITH Same Address

Formation Test No. 2 Interval Tested From 5004 ft. to 5055 ft. Total Depth 5055 ft.
Packer Depth 5009 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 5004 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside)	5010	ft.	Recorder Number	6246	Cap. 5200
Bottom Recorder Depth (Outside)	5013	ft.	Recorder Number	5763	Cap. 5400
Below Straddle Recorder Depth	—	ft.	Recorder Number	—	Cap. —
Drilling Contractor	Red Tiger		Drill Collar Length	—	I. D. — in.
Mud Type	salt mud/starch	Viscosity	Weight Pipe Length	1093	I. D. 3.2 in.
Weight	9.6	Water Loss	Drill Pipe Length	3893	I. D. 3.8 in.
Chlorides	39,000	P.P.M.	Test Tool Length	28	Tool Size 5 1/2 in.
Jars: Make	W.T.C.	Serial Number	Anchor Length	41	Size 5 1/2 in.
Did Well Flow?	No	Reversed Out	Surface Choke Size	3 1/4	Bottom Choke Size 3 1/4 in.
			Main Hole Size	7 1/8	Tool Joint Size 4 1/2 in.

Blow:

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Couldn't get a packer seat.

RECEIVED
OCT 20 1983

Time On Location	A.M.	Time Pick Up Tool	A.M.	Time Off Location	A.M.
12:30	P.M.	1:30	P.M.	1:00	P.M.
Time Set Packer(s)	A.M.	Time Started Off Bottom	A.M.	Maximum Temperature	A.M.
Initial Hydrostatic Pressure	.....	(A)	X 2526	P.S.I.	.....
Initial Flow Period	.....	Minutes (B)	.....	P.S.I. to (C)	P.S.I.
Initial Closed In Period	.....	Minutes (D)	.....	P.S.I.	.....
Final Flow Period	.....	Minutes (E)	.....	P.S.I. to (F)	P.S.I.
Final Closed In Period	Minutes (G)	X 2498	P.S.I.
Final Hydrostatic Pressure	(H)	P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Mark P. Stott
Signature of Customer or his authorized representative

Western Representative Mike Jett - Thank You!

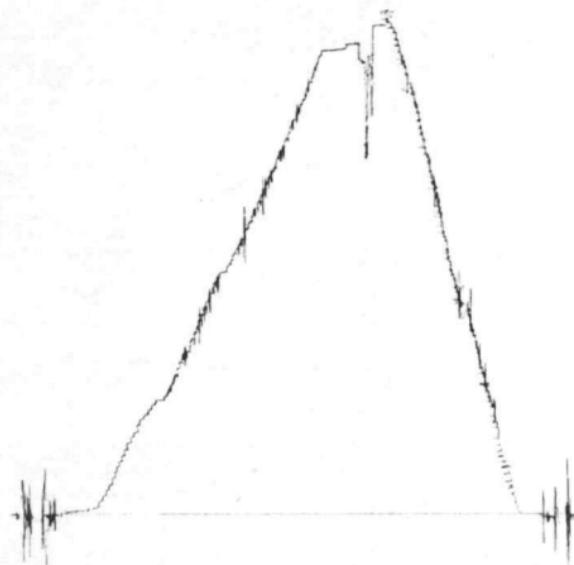
FIELD INVOICE

Open Hole Test	\$ 400.00
Misrun	\$ 400.00
Straddle Test	\$ 400.00
Jars	\$ 400.00
Selective Zone	\$ 65.00
Safety Joint	\$ 65.00
Standby	\$ 0.00
Evaluation	\$ 0.00
Extra Packer	\$ 0.00
Circ. Sub.	\$ 0.00
Mileage	\$ 0.00
Fluid Sampler	\$ 0.00
Extra Charts	\$ 0.00
Insurance	\$ 0.00
Telecopier	\$ 0.00
TOTAL	\$ 1765.00

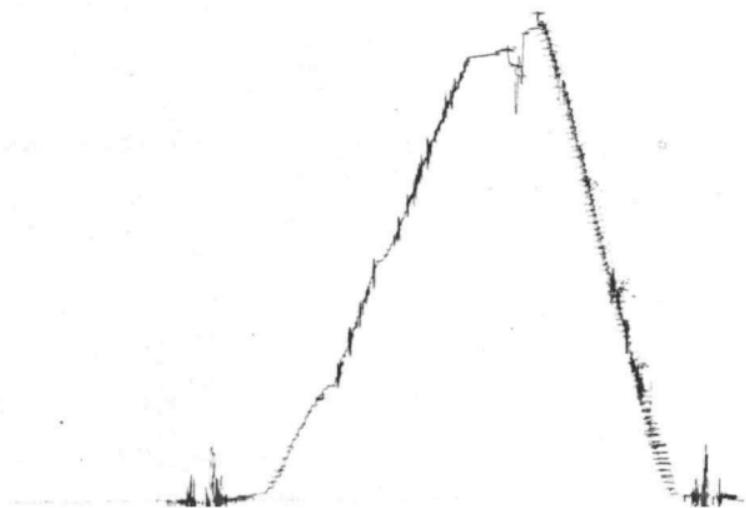
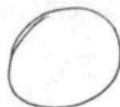
TKT # 17669

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(H) (A)



TKT # 17669



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/18/83 TICKET #17669
 CUSTOMER: GRAHAM-MICHAELIS CORP. LEASE: SMITH
 WELL: 2-34 TEST: 2 GEOLOGIST: ?
 ELEVATION (KB): 2152 FORMATION: MISSISSIPPI
 SECTION: 34 TOWNSHIP: 30S
 RANGE: 18W COUNTY: KIOWA STATE: KANSAS
 GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 5014 FT TO: 5055 FT TOTAL DEPTH: 5055 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 5009 FT SIZE: 6 5/8 IN PACKER DEPTH: 5014 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER DRILLING
 MUD TYPE: SALTMUDSTA VISCOSITY: 65
 WEIGHT: 9.6 WATER LOSS (CC): 14.0
 CHLORIDES (P.P.M.): 39000
 JARS - MAKE: WTC SERIAL NUMBER: 410
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: FT I.D.: IN
 WEIGHT PIPE LENGTH: 1093 FT I.D.: 3.2 IN
 DRILL PIPE LENGTH: 3893 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 41 FT SIZE: 5 1/2 IN
 SURFACE CHOCKE SIZE: 3/4 IN BOTTOM CHOCKE SIZE: 3/4 IN
 MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW:

RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: MISRUN. COULD NOT GET A PACKER SEAT.

TIME SET PACKER(S):	TIME STARTED OFF BOTTOM:			
WELL TEMPERATURE: 0 °F				
INITIAL HYDROSTATIC PRESSURE:	(A) 2596	PSI		
INITIAL FLOW PERIOD	MIN: 0	(B) 0	PSI TO (C) 0	PSI
INITIAL CLOSED IN PERIOD	MIN: 0	(D) 0	PSI	
FINAL FLOW PERIOD	MIN: 0	(E) 0	PSI TO (F) 0	PSI
FINAL CLOSED IN PERIOD	MIN: 0	(G) 0	PSI	
FINAL HYDROSTATIC PRESSURE	(H) 2498	PSI		

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 10/18/83 TICKET #17669
CUSTOMER: GRAHAM-MICHAELIS CORP. LEASE: SMITH
WELL: 2-34 TEST: 2 GEOLOGIST: ?
ELEVATION (KB): 2152 FORMATION: MISSISSIPPI
SECTION: 34 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2596 PSI
(B) FIRST INITIAL FLOW PRESSURE: 0 PSI
(C) FIRST FINAL FLOW PRESSURE: 0 PSI
(D) INITIAL CLOSED-IN PRESSURE: 0 PSI
(E) SECOND INITIAL FLOW PRESSURE: 0 PSI
(F) SECOND FINAL FLOW PRESSURE: 0 PSI
(G) FINAL CLOSED-IN PRESSURE: 0 PSI
(H) FINAL HYDROSTATIC PRESSURE: 2498 PSI
WELL TEMPERATURE: 0 °F
OPEN TOOL:

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	MIN 0	MIN
INITIAL CLOSED-IN PRESSURE:	MIN 0	MIN
SECOND FLOW PRESSURE:	MIN 0	MIN
FINAL CLOSED-IN PRESSURE:	MIN 0	MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW MIN	INITIAL SHUT-IN PRESSURE 0	SECOND FLOW MIN	FINAL SHUT-IN PRESSURE 0
1	0	0	0	0
2				
3				
4				
5				
6				
7				
8				
9				
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11				
12				
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29				
30				



WESTERN TESTING CO., INC.
P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 10/22/83

Graham-Michaelis Corp.
211 N. Broadway
Wichita, Kansas 67202

WELL REPORT NO.

UNIT NO.

DISTRICT

17670

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR	FARM	SECTION	TWP.	RANGE
#2-34	Smith		Kiowa County, Kansas	34	308	18W

One drill stem test from 5400' to 5430' (Test 3) \$ 650.00
Jars 300.00
Safety Joint 65.00
Open hole testing insurance 50.00
Total \$1,065.00

POSTED

DISCOUNT
\$10.65

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

17670

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

OPEN HOLE TESTING INSURANCE AVAILABLE

Details of Policy:

\$35,000 limit per hole

\$ 2,000 Fishing limit

\$ 2,500 Deductible per hole

Operator pays the deductible.

Deductible applies to total loss including tool and fishing with limits as above.

Premium per test - \$50.00 DST No. 3 Test Depth 5400 - 5430

I want the open hole insurance.

I do not want the open hole insurance.

Legal Description of Location Smith #2-34 34, 30s, 18w

Mike Tritt
Salesman Signature

10-22-83
Date

Graham - Michaelis Corp
Company Name

Allen J. Tracy
Customer Signature



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 17670

OK

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2152 K.B Formation Viola

Eff. Pay Ft.

District Pratt

Date 10-22-83

Customer Order No.

COMPANY NAME Graham-Michaelis Corp.

ADDRESS P.O. Box 247 Wichita, Ks 67208 211 N. Broadway

LEASE AND WELL NO. Smith #2-34

COUNTY Kiowa

STATE Ks

Sec. 34 Twp. 30S Rge. 18W

Mail Invoice To #2-34

Same

No. Copies Requested req

Co. Name SMITH

same

Address

Mail Charts To

Address

No. Copies Requested req

Formation Test No. 3

Interval Tested From 5400

ft. to 5430

ft. Total Depth 5430 ft.

Packer Depth 5395

ft. Size 6 5/8 in.

Packer Depth —

ft. Size — in.

Packer Depth 5400

ft. Size 6 5/8 in.

Packer Depth —

ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 5405

Bottom Recorder Depth (Outside) 5408

Below Straddle Recorder Depth —

Drilling Contractor RED Tiger

Mud Type Salt-Mud Starch Viscosity 63

Weight 8.3 Water Loss 11.2 cc.

Chlorides 3300 P.P.M.

Jars: Make W.T.C. Serial Number 3922

Did Well Flow? No Reversed Out No

Recorder Number 6246 Cap. 5200

Recorder Number 5763 5673 Cap. 5400

Recorder Number — Cap. —

Drill Collar Length — I. D. — in.

Weight Pipe Length 1093 I. D. 3 1/2 in.

Drill Pipe Length 4279 I. D. 3 1/8 in.

Test Tool Length 28 ft. Tool Size 5 1/2 in.

Anchor Length 30 ft. Size 5 1/2 in.

Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Fair blow throughout initial flow period (Hose 1 1/2" in bucket) (Weak blow)
throughout 2nd flow period (Hose 1/2" in bucket.)

Recovered 20 ft. of Drilled Mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Clock quit working on 6246 read 5763, 5673

RECEIVED
OCT 26 1983
RECEIVED

Time On Location 10:40 11:50 A.M.

Time Pick Up Tool 12:30

A.M.

Time Off Location 10:00 A.M.

Time Set Packer(s) 2:15 A.M.

Time Started Off Bottom 5:45

A.M.

Maximum Temperature 12.5°

Initial Hydrostatic Pressure

(A) 2747 P.S.I.

Initial Flow Period

Minutes 45 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period

Minutes 60 (D) 81 P.S.I.

Final Flow Period

Minutes 45 (E) 40 P.S.I. to (F) 40 P.S.I.

Final Closed In Period

Minutes 60 (G) 40 P.S.I.

Final Hydrostatic Pressure

(H) 2706 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By

Signature of Customer or his authorized representative

Western Representative

Mike Litt Thank You!

FIELD INVOICE

Open Hole Test	\$ 1650.00
Misrun	\$
Straddle Test	\$
Jars	\$ 300.00
Selective Zone	\$
Safety Joint	\$ 65.00
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$ 50.00
Telecopier	\$
TOTAL	\$ 1065.00

WESTERN TESTING CO., INC.

Pressure Data

Date 10-22Recorder No. 5673

Test Ticket No. _____

Clock No. _____

Elevation _____

Capacity _____

Location _____

Ft.

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2804</u>	P.S.I.	Open Tool	M
B First Initial Flow Pressure	<u>49</u>	P.S.I.	First Flow Pressure	Mins. Mins.
C First Final Flow Pressure	<u>49</u>	P.S.I.	Initial Closed-in Pressure	Mins. Mins.
D Initial Closed-in Pressure	<u>124</u>	P.S.I.	Second Flow Pressure	Mins. Mins.
E Second Initial Flow Pressure	<u>47</u>	P.S.I.	Final Closed-in Pressure	Mins. Mins.
F Second Final Flow Pressure	<u>47</u>	P.S.I.		
G Final Closed-in Pressure	<u>60</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2736</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	<u>49</u>
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	
P 8	35	
P 9	40	
P10	45	<u>49</u>
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In

Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	<u>49</u>
	3	<u>50</u>
	6	<u>52</u>
	9	<u>54</u>
	12	<u>57</u>
	15	<u>61</u>
	18	<u>66</u>
	21	<u>72</u>
	24	<u>78</u>
	27	<u>83</u>
	30	<u>88</u>
	33	<u>94</u>
	36	<u>98</u>
	39	<u>104</u>
	42	<u>109</u>
	45	<u>115</u>
	48	<u>117</u>
	51	<u>120</u>
	54	<u>124</u>
	57	<u>60</u>

Second Flow Pressure

Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	<u>47</u>
	5	<u>5</u>
	10	<u>1</u>
	15	<u>1</u>
	20	<u>1</u>
	25	<u>1</u>
	30	<u>1</u>
	35	<u>1</u>
	40	<u>47</u>
	45	<u>47</u>
	50	<u>50</u>
	55	<u>55</u>
	60	<u>60</u>
	65	<u>60</u>
	70	<u>60</u>
	75	<u>60</u>
	80	<u>60</u>
	85	<u>60</u>
	90	<u>60</u>

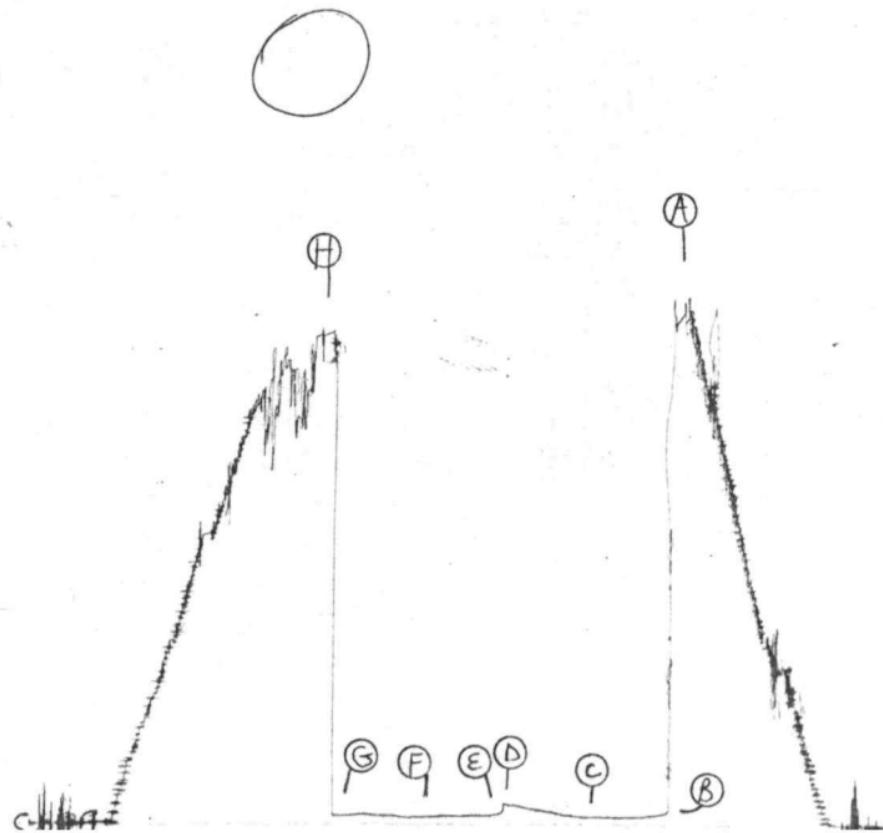
Final Shut-In

Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	<u>47</u>
	3	<u>47</u>
	6	<u>48</u>
	9	<u>48</u>
	12	<u>49</u>
	15	<u>50</u>
	18	<u>52</u>
	21	<u>54</u>
	24	<u>56</u>
	27	<u>58</u>
	30	<u>60</u>
	33	<u>60</u>
	36	<u>60</u>
	39	<u>60</u>
	42	<u>60</u>
	45	<u>60</u>
	48	<u>60</u>
	51	<u>60</u>
	54	<u>60</u>
	57	<u>60</u>

TKT # 17670

5673
DST#3



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/22/83
CUSTOMER: GRAHAM MICHAELIS CORP.
WELL: 2-34 TEST: 3
ELEVATION (KB): 2152 FORMATION: VIOLA
SECTION: 34 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #5673 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 5400 FT TO: 5430 FT TOTAL DEPTH: 5430 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 5395 FT SIZE: 6 5/8 IN PACKER DEPTH: 5400 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER

MUD TYPE: SLT-STARCH VISCOSITY: 63
WEIGHT: 8.3 WATER LOSS (CC): 11.2

CHLORIDES (P.P.M.): 3300

JARS - MAKE: W.T.C SERIAL NUMBER: 3922

DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: FT I.D.: IN

WEIGHT PIPE LENGTH: 1093 FT I.D.: 3.2 IN

DRILL PIPE LENGTH: 4279 FT I.D.: 3.8 IN

TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 30 FT SIZE: 5 1/2 O.D. IN

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 FAIR BLOW

THROUGHOUT WITH 1 1/2 IN BUCKET.

FINAL FLOW PERIOD WEAK BLOW

THROUGHOUT WITH 1/2" IN BUCKET.

RECOVERED: 20 FT OF: DRILLING MUD

RECOVERED: FT OF:

REMARKS: CLOCK QUIT SO READ OUTSIDE CHART.

TIME SET PACKER(S): 2:15 P.M.

TIME STARTED OFF BOTTOM: 5:45 P.M.

WELL TEMPERATURE: 125 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 2804 PSI

INITIAL FLOW PERIOD MIN: 45 (B) 49 PSI TO (C) 49 PSI

INITIAL CLOSED IN PERIOD MIN: 54 (D) 124 PSI

FINAL FLOW PERIOD MIN: 45 (E) 47 PSI TO (F) 47 PSI

FINAL CLOSED IN PERIOD MIN: 57 (G) 60 PSI

FINAL HYDROSTATIC PRESSURE (H) 2736 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 10/22/83 TICKET #17670
CUSTOMER: GRAHAM MICHAELIS CORP. LEASE: SMITH
WELL: 2-34 TEST: 3 GEOLOGIST: G. TRACY
ELEVATION (KB): 2152 FORMATION: VIOLA
SECTION: 34 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #5673 RANGE: 5200 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2804 PSI
(B) FIRST INITIAL FLOW PRESSURE: 49 PSI
(C) FIRST FINAL FLOW PRESSURE: 49 PSI
(D) INITIAL CLOSED-IN PRESSURE: 124 PSI
(E) SECOND INITIAL FLOW PRESSURE: 47 PSI
(F) SECOND FINAL FLOW PRESSURE: 47 PSI
(G) FINAL CLOSED-IN PRESSURE: 60 PSI
(H) FINAL HYDROSTATIC PRESSURE: 2736 PSI
WELL TEMPERATURE: 125 °F
OPEN TOOL: 2:15 P.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	54 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	57 MIN

PRESSURE BREAKDOWN