



# WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 10/17/83

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

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

WELL NO.

FARM

SECTION

TWP.

RANGE

#2-34

Smith

Kiowa County, Kansas

34

30S

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

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



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET

OK  
No 17668

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

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

District Pratt Date 10-17-83 Customer Order No.  
COMPANY NAME Graham - Michaelis Corporation 211 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 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 ft. Tool Size 5 1/2 in.  
Jars: Make W.T.C. Serial Number 3922 Anchor Length 46 ft. Size 5 1/2 in.  
Did Well Flow? No 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 XH in.

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

Recovered 65 ft. of gas cut Drlg mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED  
OCT 18 1983

Time On Location 3:00 A.M. Time Pick Up Tool 7:30 A.M. Time Off Location 4:00 A.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) 510 P.S.I. to (F) 510 P.S.I.  
Final Closed In Period Minutes 60 (G) 719 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 [Signature] Signature of Customer or his authorized representative

Western Representative Mike Jett - Thank You!

FIELD INVOICE

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





## GAS FLOW REPORT

N<sup>o</sup> 4448

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
<b>PRE FLOW</b>					
9:25		2"	7#	PS19	gas to surface 3 min.
:35	10		7#		1,930,000 MCFPD Through 2"
:45	20		8#		1,930,000
:55	30		8#		2,060,000
10:05	40		8#		{
:10	45		8#		ok

## SECOND FLOW

11:10		2"	9#	PS19	Cubic Feet Per Day Through 2"
:20	10		10#		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 1½% 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 - MichaelisAuthorized by Allen A. Tracy

# WESTERN TESTING CO., INC.

## Pressure Data

Date 10-17-83 Test Ticket No. 17668  
 Recorder No. 6246 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

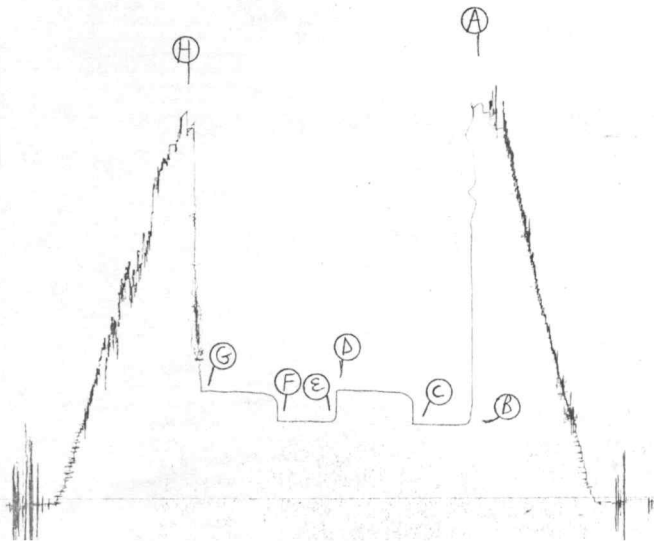
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2500</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>490</u> P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	<u>498</u> P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	<u>730</u> 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>725</u> P.S.I.			
H Final Hydrostatic Mud	<u>2543</u> P.S.I.			

## PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>10</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>10</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 0	<u>490</u>	0	<u>498</u>	0	<u>513</u>	0	<u>521</u>
P 2 5	<u>490</u>	3	<u>685</u>	5	<u>517</u>	3	<u>680</u>
P 3 10	<u>490</u>	6	<u>704</u>	10	<u>516</u>	6	<u>699</u>
P 4 15	<u>492</u>	9	<u>713</u>	15	<u>516</u>	9	<u>709</u>
P 5 20	<u>494</u>	12	<u>715</u>	20	<u>517</u>	12	<u>712</u>
P 6 25	<u>495</u>	15	<u>716</u>	25	<u>518</u>	15	<u>713</u>
P 7 30	<u>496</u>	18	<u>718</u>	30	<u>519</u>	18	<u>715</u>
P 8 35	<u>497</u>	21	<u>720</u>	35	<u>520</u>	21	<u>717</u>
P 9 40	<u>498</u>	24	<u>722</u>	40	<u>521</u>	24	<u>719</u>
P10 45	<u>498</u>	27	<u>723</u>	45	<u>521</u>	27	<u>721</u>
P11 50		30	<u>724</u>	50		30	<u>722</u>
P12 55		33	<u>725</u>	55		33	<u>723</u>
P13 60		36	<u>726</u>	60		36	<u>723</u>
P14		39	<u>727</u>	65		39	<u>724</u>
P15		42	<u>728</u>	70		42	<u>724</u>
P16		45	<u>729</u>	75		45	<u>725</u>
P17		48	<u>729</u>	80		48	<u>725</u>
P18		51	<u>730</u>	85		51	<u>725</u>
P19		54	<u>730</u>	90		54	<u>725</u>
P20		57	<u>730</u>			57	<u>725</u>
		60				60	

TKT. # 17668

I



1 # LSC

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 10/17/83  
CUSTOMER: GRAHAM-MICHAELIS CORPORATION  
WELL: 2-34 TEST: 1  
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:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
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.  
GAS FLOW REPORT

DATE: 10/17/83  
CUSTOMER: GRAHAM-MICHAELIS CORPORATION  
WELL: 2-34 TEST: 1  
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
---------------------	-------------	-----------------	-------------------	------------------

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

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

DATE 10/18/83

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			
WELL NO.	FARM		SECTION	TWP.	RANGE
#2-34	Smith		34	30S	18W

Kiowa County, Kansas

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
--------------------	--	---	-------------------------

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



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET

No 17669

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

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

District Prairie Date 10-18-83 Customer Order No.     

COMPANY NAME Graham-Michaelis Corp.  
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 Co. Name SMITH Address same No. Copies Requested req

Mail Charts To SMITH Address same No. Copies Requested req

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 65 Weight Pipe Length 1093 I. D. 3.2 in.

Weight 9.6 Water Loss 14.0 cc. Drill Pipe Length 3893 I. D. 3.8 in.

Chlorides 39,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number 3922 410 Anchor Length 41 ft. Size 5 1/2 in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 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 12:30 A.M. Time Pick Up Tool 1:30 A.M. Time Off Location 7:00 A.M.

Time Set Packer(s)      P.M. Time Started Off Bottom      P.M. Maximum Temperature     

Initial Hydrostatic Pressure      (A) X 2596 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)      P.S.I.

Final Hydrostatic Pressure      (H) X 2498 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 Mark P. Stutz  
Signature of Customer or his authorized representative

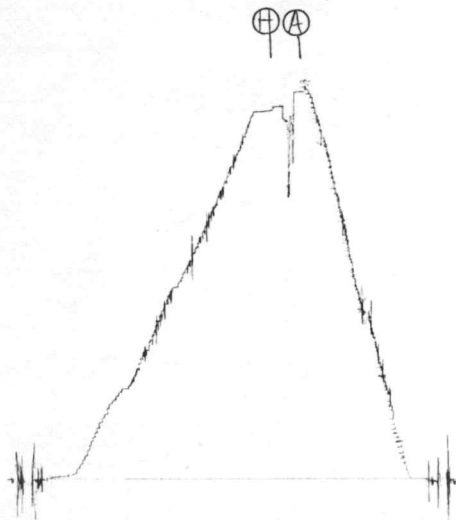
Western Representative Mike Lutt - Thank You!

FIELD INVOICE

Open Hole Test \$ 400.00  
Misrun \$       
Straddle Test \$ 300.00  
Jars \$       
Selective Zone \$ 65.00  
Safety Joint \$       
Standby \$       
Evaluation \$       
Extra Packer \$       
Circ. Sub. \$       
Mileage \$       
Fluid Sampler \$       
Extra Charts \$       
Insurance \$       
Telecopier \$       
TOTAL \$ 765.00

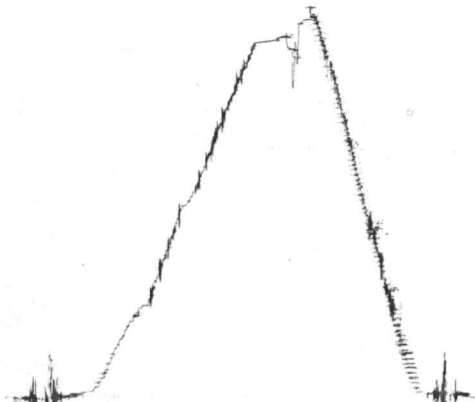
TKT # 17669

I





TKT # 17669



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

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

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 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:

RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
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.  
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		
WELL NO.	FARM	SECTION	TWP.	RANGE
#2-34	Smith	34	30S	18W
Kiowa County, Kansas				

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		<u>\$1,065.00</u>

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  
[Signature]  
Customer Signature



WESTERN TESTING CO., INC.  
FORMATION TESTING

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 67201 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      Co. Name same      Address \_\_\_\_\_      No. Copies Requested req

Mail Charts To SMITH      same      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      ft.      Recorder Number 6246      Cap. 5200

Bottom Recorder Depth (Outside) 5408      ft.      \* Recorder Number 5763 5673      Cap. 5400

Below Straddle Recorder Depth \_\_\_\_\_      Recorder Number \_\_\_\_\_      Cap. \_\_\_\_\_

Drilling Contractor RED Tiger      Drill Collar Length \_\_\_\_\_      I. D. \_\_\_\_\_      in.

Mud Type Salt-Mud Starch      Viscosity 63      Weight Pipe Length 1093      I. D. 3.2      in.

Weight 8.3      Water Loss 11.2      cc.      Drill Pipe Length 4279      I. D. 3.8      in.

Chlorides 3300      P.P.M.      Test Tool Length 28      ft.      Tool Size 5 1/2      in.

Jars: Make W.T.C.      Serial Number 3922      Anchor Length 30      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 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 Dry 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      P.M.      Time Off Location 10:00      A.M.      P.M.

Time Set Packer(s) 2:15      A.M.      Time Started Off Bottom 5:45      A.M.      P.M.      Maximum Temperature 125°

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 Glenn A. Tracy  
Signature of Customer or his authorized representative

Western Representative Mike Witt - Thank You!

FIELD INVOICE

Open Hole Test \$ 650.00  
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: 10-22 Recorder No. 5673 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

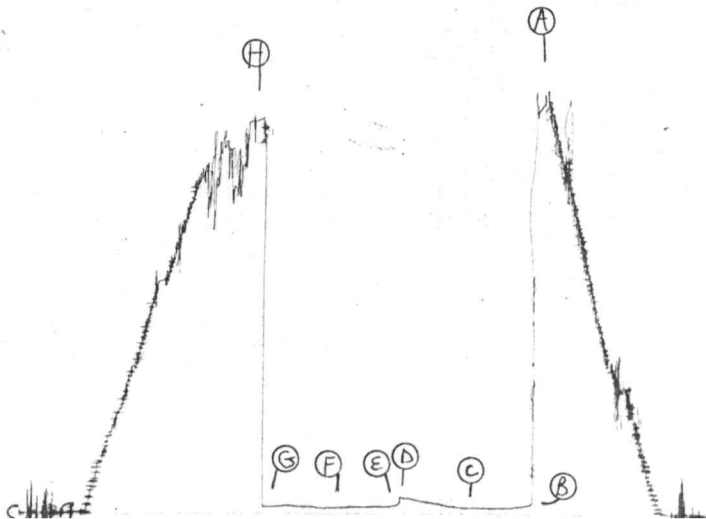
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2804</u> P.S.I.	Open Tool	_____ M	_____
B First Initial Flow Pressure	<u>49</u> P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D Initial 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		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>10</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>10</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>49</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>		<u>3</u>	<u>50</u>	<u>5</u>		<u>3</u>	<u>47</u>
P 3 <u>10</u>		<u>6</u>	<u>52</u>	<u>10</u>		<u>6</u>	<u>48</u>
P 4 <u>15</u>		<u>9</u>	<u>54</u>	<u>15</u>		<u>9</u>	<u>48</u>
P 5 <u>20</u>		<u>12</u>	<u>57</u>	<u>20</u>		<u>12</u>	<u>49</u>
P 6 <u>25</u>		<u>15</u>	<u>61</u>	<u>25</u>		<u>15</u>	<u>50</u>
P 7 <u>30</u>		<u>18</u>	<u>66</u>	<u>30</u>		<u>18</u>	<u>52</u>
P 8 <u>35</u>		<u>21</u>	<u>72</u>	<u>35</u>		<u>21</u>	<u>54</u>
P 9 <u>40</u>		<u>24</u>	<u>78</u>	<u>40</u>		<u>24</u>	<u>56</u>
P10 <u>45</u>	<u>49</u>	<u>27</u>	<u>83</u>	<u>45</u>	<u>47</u>	<u>27</u>	<u>58</u>
P11 <u>50</u>		<u>30</u>	<u>88</u>	<u>50</u>		<u>30</u>	<u>60</u>
P12 <u>55</u>		<u>33</u>	<u>94</u>	<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>	<u>98</u>	<u>60</u>		<u>36</u>	
P14 _____		<u>39</u>	<u>104</u>	<u>65</u>		<u>39</u>	
P15 _____		<u>42</u>	<u>109</u>	<u>70</u>		<u>42</u>	
P16 _____		<u>45</u>	<u>115</u>	<u>75</u>		<u>45</u>	
P17 _____		<u>48</u>	<u>117</u>	<u>80</u>		<u>48</u>	
P18 _____		<u>51</u>	<u>120</u>	<u>85</u>		<u>51</u>	
P19 _____		<u>54</u>	<u>124</u>	<u>90</u>		<u>54</u>	
P20 _____		<u>57</u>				<u>57</u>	<u>60</u>
		<u>60</u>				<u>60</u>	

5673  
DST#3

TKT # 17670



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

TICKET #17670

LEASE: SMITH

GEOLOGIST: G. TRACY

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:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
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

TICKET #17670

LEASE: SMITH

TEST: 3

GEOLOGIST: G. TRACY

FORMATION: VIOLA

TOWNSHIP: 30S

COUNTY: KIOWA

STATE: KANSAS

RANGE: 5200

CLOCK: 12

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI

'F

TIME - GIVEN      TIME - ACTUAL

45 MIN 45 MIN

60 MIN 54 MIN

45 MIN 45 MIN

60 MIN 57 MIN

## PRESSURE BREAKDOWN

[illegible]

21

22

23

24

25

25  
0526  
27

27

28

29

30