



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

WELL REPORT NO.  
UNIT NO. **1870**  
DISTRICT

DATE **10/3/83**

**Associated Petroleum Consultants, Inc.**  
600 One Main Place  
Wichita, Kansas 67202

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	
#9	Mott Ranch	Barber County, Kansas	35	30S	12W

One drill stem test from 4264' to 4337' (Test 2) \$ 595.00  
 Safety Joint 65.00  
 Total \$ 660.00

**POSTED**

DISCOUNT <b>\$6.60</b>	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 <b>1870</b>
---------------------------	---	--	-------------------------------

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



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No. 1870

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

Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Eff. Pay \_\_\_\_\_ Ft.

COMPANY NAME Appo Petroleum Co. Inc. District Pestt Date 10-3-83 Customer Order No. \_\_\_\_\_

ADDRESS Suite 600 One Main Place

LEASE AND WELL NO Mott Ranch #9 COUNTY Barber STATE KS Sec. 35 Twp. 30s Rge. 10W

Mail Invoice To Same No. Copies Requested Reg

Mail Charts To Same Co. Name Appo Address #9 Mott Ranch No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 4264 ft. to 4337 ft. Total Depth 4337 ft.

Packer Depth 4259 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 4264 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4294 ft. Recorder Number 13400 Cap. 4025

Bottom Recorder Depth (Outside) 4295 ft. Recorder Number 1559 Cap. 4200

Below Saddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Hess/Hess #1 Drill Collar Length 420 I. D. 2.2 in.

Mud Type Chem. Viscosity 46 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Weight 9.3 Water Loss 11.6 cc. Drill Pipe Length 3822 I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 22 ft. Tool Size 5/8 OD in.

Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 30 + 43 ft. (73) 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 IH in.

Blow: Strong thru Both Flow Periods.

Recovered 1800 ft. of Water Chlorides 112,000 ppm

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Chlorides \_\_\_\_\_ P.P.M. Sample Jars used \_\_\_\_\_ Remarks: \_\_\_\_\_

Time On Location 11:30 A.M. Time Pick Up Tool 2:00 P.M. Time Off Location 11:00 A.M.

Time Set Packer(s) 4:00 A.M. Time Started Off Bottom 7:30 P.M. Maximum Temperature 119°

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2026 P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 157 P.S.I. to (C) 452 P.S.I.

Initial Closed In Period \_\_\_\_\_ Minutes 60 (D) 1644 P.S.I.

Final Flow Period \_\_\_\_\_ Minutes 60 (E) 511 P.S.I. to (F) 867 P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes 60 (G) 1644 P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) 2026 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 P.C.C. Caragianis Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test	\$ <u>575.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ <u>165.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>660.00</u>

Thank you

Pressure Data

10-3-82

Test Ticket No. 1870

Well No. 13402 Capacity \_\_\_\_\_ Location \_\_\_\_\_  
 No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	2026	P.S.I.			
First Initial Flow Pressure	166	P.S.I.	First Flow Pressure	30	Mins.
First Final Flow Pressure	472	P.S.I.	Initial Closed-in Pressure	60	Mins.
Initial Closed-in Pressure	1661	P.S.I.	Second Flow Pressure	1	Mins.
Second Initial Flow Pressure	538	P.S.I.	Final Closed-in Pressure	60	Mins.
Second Final Flow Pressure	889	P.S.I.			
Final Closed-in Pressure	1647	P.S.I.			
Final Hydrostatic Mud	2026	P.S.I.			

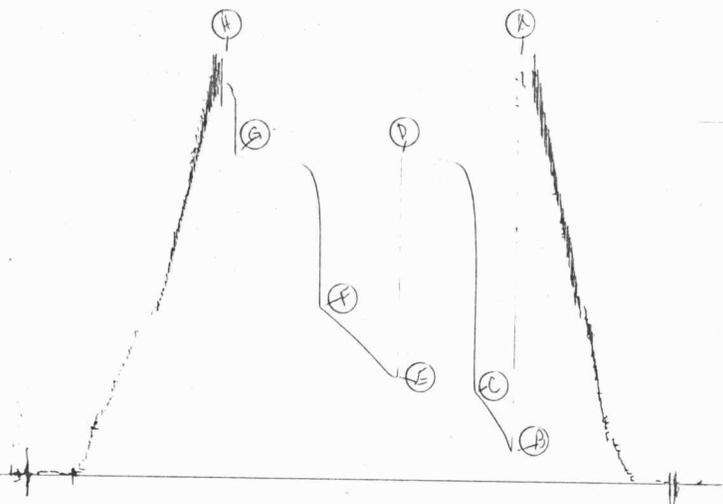
PRESSURE BREAKDOWN

First Flow Pressure Breakdown:	Initial Shut-In Breakdown:	Second Flow Pressure Breakdown:	Final Shut-In Breakdown:
7 Inc.	21 Inc.	13 Inc.	21 Inc.
of 5 mins. and a final inc. of 0 Min.	of 3 mins. and a final inc. of 0 Min.	of 5 mins. and a final inc. of 0 Min.	of 3 mins. and a final inc. of 0 Min.
Point Minutes	Press.	Point Minutes	Press.
0	160	0	472
5	226	3	1250
10	303	6	1474
15	351	9	1554
20	404	12	1606
25	447	15	1625
30	472	18	1637
35		21	1642
40		24	1647
45		27	1651
50		30	1655
55		33	1657
60		36	1659
		39	1660
		42	1660
		45	1660
		48	1660
		51	1661
		54	1661
		57	1661
		60	1661

13402  
DST #2

TKT # 1870

I



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 10/3/83 TICKET #1870  
CUSTOMER: APC INC. LEASE: MOTT RANCH  
WELL: 9 TEST: 2 GEOLOGIST: CARAGIANIS  
ELEVATION (KB): 0 FORMATION:  
SECTION: 35 TOWNSHIP: 30S  
RANGE: 12W COUNTY: BARBER STATE: KANSAS  
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4264 FT TO: 4337 FT TOTAL DEPTH: 4337 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4259 FT SIZE: 6 3/4 IN PACKER DEPTH: 4264 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: HEARTLAND  
MUD TYPE: CHEMICAL VISCOSITY: 46  
WEIGHT: 9.3 WATER LOSS (CC): 11.6  
CHLORIDES (P.P.M.): 8000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 420 FT I.D.: 2.2 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3822 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: DC30+43 FT SIZE: 5 1/2 OD 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: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 1800 FT OF: WATER CHLORIDES 112000 PPM  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 4:00 AM TIME STARTED OFF BOTTOM: 7:30 AM  
WELL TEMPERATURE: 119 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2026 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 166 PSI TO (C) 472 PSI  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1661 PSI  
FINAL FLOW PERIOD MIN: 60 (E) 538 PSI TO (F) 889 PSI  
FINAL CLOSED IN PERIOD MIN: 60 (G) 1647 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2026 PSI

