



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 1841

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

Elevation 1602 RB Formation MISS Eff. Pay Ft.

District PRAT Date 9-20-83 Customer Order No.

COMPANY NAME Associated Petroleum Consultants, Inc.

ADDRESS Suite 600 One main place Wichita, Kansas 67202-1399

LEASE AND WELL NO. 2 HASS COUNTY BARBER STATE Kansas Sec. 3 Twp 31S Rge. 12W

Mail Invoice To Co. Name Same Address No. Copies Requested Reg

Mail Charts To #2 Hass Brothers Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4248 ft. to 4297 ft. Total Depth 4297 ft.

Packer Depth 4243 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4248 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4252 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4255 ft. Recorder Number 13267 Cap. 4050

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor HEARTLAND Rgt Drill Collar Length 459 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 40 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 12.4 cc. Drill Pipe Length 3761 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 409 Anchor Length 49 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 in.

Blow: Strong blow on initial flow

Strong blow on final flow gas to surface 5 minutes interval

Recovered 125 ft. of Gas & oil cut mud 150 gas - 150 oil 700 mud

Recovered 125 ft. of Heavy oil & gas cut mud 150 gas 200 oil 100 mud

Recovered 125 ft. of 550 mud

Chlorides P.P.M. Sample Jars used 4 Remarks:

Time On Location 10:00 A.M. Time Pick Up Tool 12:30 P.M. Time Off Location 10:00 P.M.

Time Set Packer(s) 2:15 P.M. Time Started Off Bottom 6:15 P.M. Maximum Temperature 120°F

Initial Hydrostatic Pressure (A) 2083 P.S.I.

Initial Flow Period Minutes 30 (B) 52 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 60 (D) 883 P.S.I.

Final Flow Period Minutes 60 (E) 83 P.S.I. to (F) 104 P.S.I.

Final Closed In Period Minutes 90 (G) 831 P.S.I.

Final Hydrostatic Pressure (H) 2031 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 Rod Lutt Thank you

FIELD INVOICE

Open Hole Test \$525.00
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 \$990.00

Pressure Data

9-20-83

Test Ticket No. 1841

Order No. 2606 Capacity Location

Well Temperature

Time Given Time Computed

Initial Hydrostatic Mud 2086 P.S.I.
 First Initial Flow Pressure 51 P.S.I.
 First Final Flow Pressure 51 P.S.I.
 Initial Closed-in Pressure 873 P.S.I.
 Second Initial Flow Pressure 81 P.S.I.
 Second Final Flow Pressure 92 P.S.I.
 Final Closed-in Pressure 798 560 P.S.I.
 Final Hydrostatic Mud 2036 P.S.I.

Open Tool M
 First Flow Pressure Mins. Min.
 Initial Closed-in Pressure Mins. Min.
 Second Flow Pressure Mins. Min.
 Final Closed-in Pressure Mins. Min.

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 7 Inc.	Breakdown: 21 Inc.	Breakdown: 13 Inc.	Breakdown: 31 Inc.
of 5 mins. and a	of 3 mins. and a	of 5 mins. and a	of 3 mins. and a
final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.
Point Minutes	Press.	Point Minutes	Press.
0	51	0	81
3	69	5	81
6	106	10	81
9	152	15	81
12	198	20	81
15	235	25	81
18	279	30	81
21	321	35	87
24	373	40	87
27	419	45	87
30	467	50	92
33	511	55	92
36	556	60	92
39	591	65	92
42	639	70	92
45	687	75	92
48	730	80	92
51	771	85	92
54	811	90	92
57	852		
60	873		

Amended

WESTERN TESTING CO., INC.

Pressure Data

Date 9-20-83

Test Ticket No. 1841

Recorder No. _____ Capacity _____ Location _____ F

Clock No. _____ Elevation _____ Well Temperature _____ °

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____ Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____ Mins. _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____ Mins. _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins. _____ Mins. _____
F Second Final Flow Pressure _____	P.S.I.		
G Final Closed-in Pressure _____	P.S.I.		
H Final Hydrostatic Mud _____	P.S.I.		

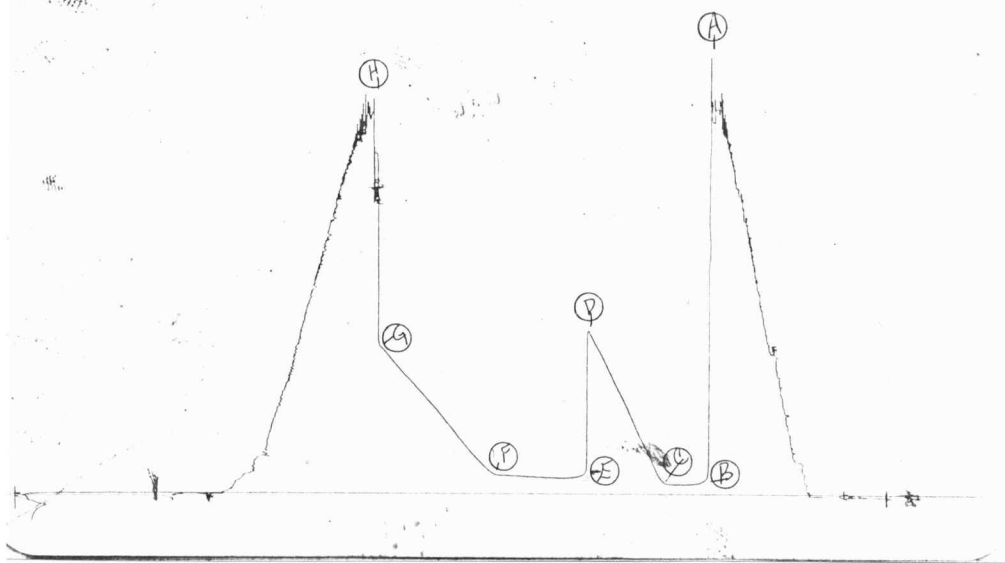
PRESSURE BREAKDOWN

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____		63				63	587
P 2 _____		66				66	614
P 3 _____		69				69	632
P 4 _____		72				72	657
P 5 _____		75				75	681
P 6 _____		78				78	708
P 7 _____		81				81	730
P 8 _____		84				84	757
P 9 _____		87				87	784
P10 _____		90				90	798
P11 _____		93				93	
P12 _____		96				96	
P13 _____		99				99	
P14 _____		102				102	
P15 _____		105				105	
P16 _____		108				108	
P17 _____		111				111	
P18 _____		114				114	
P19 _____		117				117	
P20 _____		120				120	

2000 PSI

TKT #1841

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/20/83
CUSTOMER: APC INC.
WELL: 2
ELEVATION (KB): 1662
SECTION: 3
RANGE: 12W
GAUGE SN #2606

TEST: 1
FORMATION: MISSISSIPPI
TOWNSHIP: 31S
COUNTY: BARBER
RANGE: 4150

TICKET #1841
LEASE: HASS BROTHERS
GEOLOGIST: ?
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4248 FT TO: 4297 FT TOTAL DEPTH: 4297 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4243 FT SIZE: 6 3/4 IN PACKER DEPTH: 4248 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: HEARTLAND
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.2 WATER LOSS (CC): 12.4
CHLORIDES (P.P.M.): 11000
JARS - MAKE: WTC SERIAL NUMBER: 409
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 459 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3761 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 49 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 58 MINUTES ON
FINAL FLOW PERIOD - TOO WEAK TO MEASURE.

RECOVERED: 125	FT	OF: GAS & OIL CUT MUD
RECOVERED:	FT	OF: 15% GAS; 15% OIL; 70% MUD
RECOVERED: 125	FT	OF: HEAVY OIL & GAS CUT MUD
RECOVERED:	FT	OF: 15% GAS; 20% OIL; 10% WATER; 55% MUD
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 2:15 PM	TIME STARTED OFF BOTTOM: 6:15 PM
WELL TEMPERATURE: 120 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2086 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 51 PSI TO (C) 51 PSI
INITIAL CLOSED IN PERIOD MIN: 60	(D) 873 PSI
FINAL FLOW PERIOD MIN: 60	(E) 81 PSI TO (F) 92 PSI
FINAL CLOSED IN PERIOD MIN: 90	(G) 798 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2036 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 9/20/83
CUSTOMER: APC INC.
WELL: 2
ELEVATION (KB): 1662
SECTION: 3
RANGE: 12W
GAUGE SN #2606

TEST: 1

COUNTY: BARBER
RANGE: 4150

TICKET #1841
LEASE: HASS BROTHERS
GEOLOGIST: ?
MISSISSIPPI
315
STATE: KANSAS
CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2086	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	51	PSI
(C)	FIRST FINAL FLOW PRESSURE:	51	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	873	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	81	PSI
(F)	SECOND FINAL FLOW PRESSURE:	92	PSI
(G)	FINAL CLOSED-IN PRESSURE:	798	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2036	PSI
WELL TEMPERATURE:		120	'F
OPEN TOOL: 2:15 PM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #1841

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	798
32								
33								
34								
35								
36								
37								
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40								
41								
42								
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