



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. **4383**

P. O. BOX 1599 PHONE (316) 262-5861

Elevation

Formation

Simpson

Eff. Pay - Ft.

WICHITA, KANSAS 67201

A210

District **Pratt**

Date **5/21/84**

Customer Order No. -

COMPANY NAME **A.P.C., Inc.**

ADDRESS **Suite 600 One Main Place Wichita, Ks 67202-4399**

LEASE AND WELL NO. **Day #1** COUNTY **Samner** STATE **Ks** Sec. **13** Twp. **33** Rge. **1E**

Mail Invoice To **Same** No. Copies Requested **5**

Mail Charts To **Same #1 DAY** Address No. Copies Requested **5**

Formation Test No. **1** Interval Tested From **3695** ft. to **3795** ft. Total Depth **3795** ft.

Packer Depth **3690** ft. Size **6 7/8** in. Packer Depth **-** ft. Size **-** in.

Packer Depth **3695** ft. Size **6 7/8** in. Packer Depth **-** ft. Size **-** in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) **3722** ft.

Recorder Number **13547** Cap. **4225**

Bottom Recorder Depth (Outside) **3725** ft.

* Recorder Number **13552** Cap. **4050**

Below Straddle Recorder Depth **-** ft.

Recorder Number **-** Cap. **-**

Drilling Contractor **Heartland Rig #1**

Drill Collar Length **335** I. D. **2 1/4** in.

Mud Type **Chemical** Viscosity **46**

Weight Pipe Length **-** I. D. **-** in.

Weight **8.8** Water Loss **-** cc.

Drill Pipe Length **3331** I. D. **3.8** in.

Chlorides **1,500** P.P.M.

Test Tool Length **29** ft. Tool Size **5 1/2 OD** in.

Jars: Make **WTC** Serial Number **405**

Anchor Length **100** ft. Size **5 1/2 OD** in.

Did Well Flow? **No** Reversed Out

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

Main Hole Size **7 1/2** in. Tool Joint Size **4 1/2 FH** in.

Blow: **Strong blow throughout flow periods**

Recovered **270** ft. of **Gas Cut Mud**

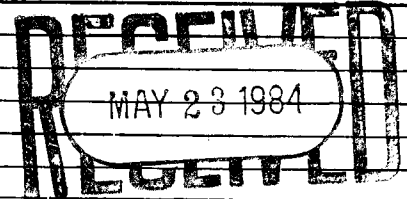
Recovered **240** ft. of **Gas Cut Muddy water**

Recovered **420** ft. of **Gassy salt water**

Recovered **-** ft. of

Recovered **-** ft. of

Chlorides **37,000** P.P.M. Sample Jars used **-** Remarks:



(Read bottom Chart)

Time On Location **2:30** A.M. Time Pick Up Tool **5:00** P.M. Time Off Location **1:30** A.M.

Time Set Packer(s) **6:30** A.M. Time Started Off Bottom **10:15** A.M. Maximum Temperature **116.0**

Initial Hydrostatic Pressure (A) **1681** P.S.I.

Initial Flow Period Minutes **30** (B) **264** P.S.I. to (C) **335** P.S.I.

Initial Closed In Period Minutes **60** (D) **1520** P.S.I.

Final Flow Period Minutes **75** (E) **426** P.S.I. to (F) **599** P.S.I.

Final Closed In Period Minutes **60** (G) **1459** P.S.I.

Final Hydrostatic Pressure (H) **1661** 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 **Del C. Cuy**
Signature of Customer or his authorized representative

Western Representative **Jim Wondolinski** 2376

FIELD INVOICE

Open Hole Test \$ **550.00**
Misrun \$ **-**
Straddle Test \$ **-**
Jars \$ **1300.00**
Selective Zone \$ **-**
Safety Joint \$ **165.00**
Standby \$ **-**
Evaluation \$ **-**
Extra Packer \$ **-**
Circ. Sub. \$ **-**
Mileage \$ **-**
Fluid Sampler \$ **-**
Extra Charts \$ **-**
Insurance \$ **150.00**
Telecopier \$ **-**
TOTAL \$ **965.00**

WESTERN TESTING CO., INC.

Pressure Data

Date: 5-21-84 Test Ticket No. 4383
 Recorder No. 13552 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1683</u> P.S.I.		
B First Initial Flow Pressure	<u>254</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>324</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1525</u> P.S.I.	<u>75</u> Mins.	<u>75</u> Mins.
E Second Initial Flow Pressure	<u>426</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>598</u> P.S.I.		
G Final Closed-in Pressure	<u>1453</u> P.S.I.		
H Final Hydrostatic Mud	<u>1654</u> P.S.I.		

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

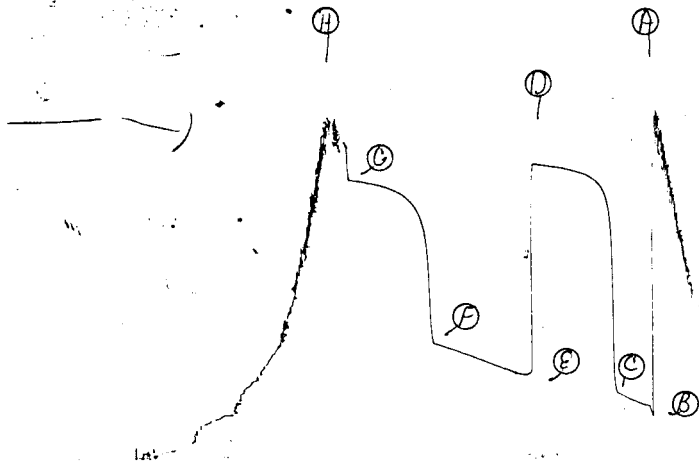
Read outside chart

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>21</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	254 <u>254</u>	0	<u>324</u>	0	<u>426</u>	0	<u>598</u>
P 2 5	<u>254</u>	3	<u>940</u>	5	<u>426</u>	3	<u>949</u>
P 3 10	<u>264</u>	6	<u>1307</u>	10	<u>431</u>	6	<u>1174</u>
P 4 15	<u>280</u>	9	<u>1380</u>	15	<u>444</u>	9	<u>1249</u>
P 5 20	<u>298</u>	12	<u>1413</u>	20	<u>458</u>	12	<u>1297</u>
P 6 25	<u>316</u>	15	<u>1436</u>	25	<u>473</u>	15	<u>1327</u>
P 7 30	<u>324</u>	18	<u>1453</u>	30	<u>488</u>	18	<u>1349</u>
P 8 35		21	<u>1464</u>	35	<u>501</u>	21	<u>1368</u>
P 9 40		24	<u>1473</u>	40	<u>515</u>	24	<u>1382</u>
P 10 45		27	<u>1480</u>	45	<u>528</u>	27	<u>1393</u>
P 11 50		30	<u>1486</u>	50	<u>540</u>	30	<u>1402</u>
P 12 55		33	<u>1492</u>	55	<u>555</u>	33	<u>1411</u>
P 13 60		36	<u>1498</u>	60	<u>568</u>	36	<u>1419</u>
P 14		39	<u>1504</u>	65	<u>579</u>	39	<u>1424</u>
P 15		42	<u>1507</u>	70	<u>593</u>	42	<u>1429</u>
P 16		45	<u>1510</u>	75	<u>598</u>	45	<u>1433</u>
P 17		48	<u>1513</u>	80		48	<u>1437</u>
P 18		51	<u>1516</u>	85		51	<u>1441</u>
P 19		54	<u>1519</u>	90		54	<u>1445</u>
P 20		57	<u>1522</u>			57	<u>1449</u>
		60	<u>1525</u>			60	<u>1453</u>

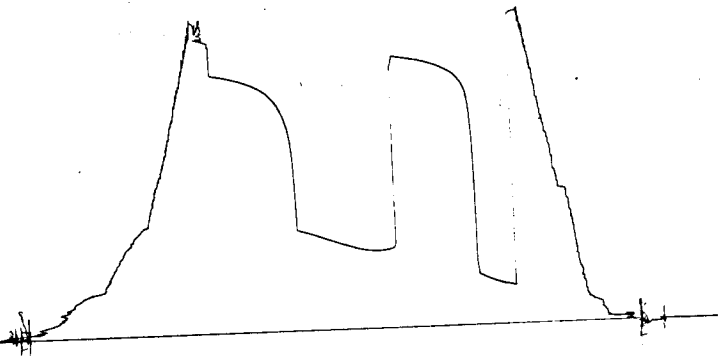
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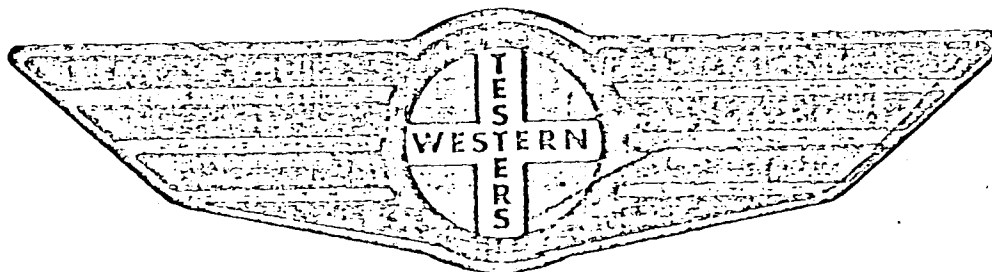
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FORMATION

TEST

REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

Company A.P.C., INC.

Lease and Well No.

#1 DAY

Sec. 13

Twp. 33s

Rge. 1E

Test No. 1

Date 5/21/8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/21/84
CUSTOMER: A.P.C. INC.
WELL: 1
ELEVATION (KB): 0
SECTION: 13
RANGE: 1E
GAUGE SN #13552

TEST: 1
FORMATION: SIMPSON
TOWNSHIP: 33S
COUNTY: SUMNER
RANGE: 4050

TICKET #4383
LEASE: DAY
GEOLOGIST: CARAGIANUAS
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3695 FT TO: 3795 FT TOTAL DEPTH: 3795 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3690 FT SIZE: 6 5/8 IN PACKER DEPTH: 3695 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: HEARTLAND
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 8.8 WATER LOSS (CC):
CHLORIDES (P.P.M.): 1500
JARS - MAKE: W.T.C. SERIAL NUMBER: 405
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 335 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3331 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 100 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 F.H. IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 270	FT	OF: GAS CUT MUD
RECOVERED: 240	FT	OF: GAS CUT MUDDY WATER
RECOVERED: 420	FT	OF: GASSY SALT WATER
RECOVERED:	FT	OF: CHLORIDES 37000 PPM
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: READ OUTSIDE CHART.

TIME SET PACKER(S): 6:30 P.M.	TIME STARTED OFF BOTTOM: 10:15 P.M.
WELL TEMPERATURE: 116 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1683 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 254 PSI TO (C) 324 PSI
INITIAL CLOSED IN PERIOD MIN: 60	(D) 1525 PSI
FINAL FLOW PERIOD MIN: 75	(E) 426 PSI TO (F) 598 PSI
FINAL CLOSED IN PERIOD MIN: 60	(G) 1453 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1654 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 5/21/84		TICKET #4383
CUSTOMER: A.P.C. INC.		LEASE: DAY
WELL: 1	TEST: 1	GEOLOGIST: CARAGIANUAS
ELEVATION (KB): 0		FORMATION: SIMPSON
SECTION: 13		TOWNSHIP: 33S
RANGE: 1E	COUNTY: SUMNER	STATE: KANSAS
GAUGE SN #13552	RANGE: 4050	CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1683	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	254	PSI
(C)	FIRST FINAL FLOW PRESSURE:	324	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1525	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	426	PSI
(F)	SECOND FINAL FLOW PRESSURE:	598	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1453	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1654	PSI
WELL TEMPERATURE:		116	'F
OPEN TOOL: 6:30 P.M.			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	75 MIN	75 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	254	0	324	0	426	0	598
2	5	254	3	940	5	426	3	949
3	10	264	6	1307	10	431	6	1174
4	15	280	9	1380	15	444	9	1249
5	20	298	12	1413	20	458	12	1297
6	25	316	15	1436	25	473	15	1327
7	30	324	18	1453	30	488	18	1349
8			21	1464	35	501	21	1368
9			24	1473	40	515	24	1382
10			27	1480	45	528	27	1393
11			30	1486	50	540	30	1402
12			33	1492	55	555	33	1411
13			36	1498	60	568	36	1419
14			39	1504	65	579	39	1424
15			42	1507	70	593	42	1429
16			45	1510	75	598	45	1433
17			48	1513			48	1437
18			51	1516			51	1441
19			54	1519			54	1445
20			57	1522			57	1449
21			60	1525			60	1453

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