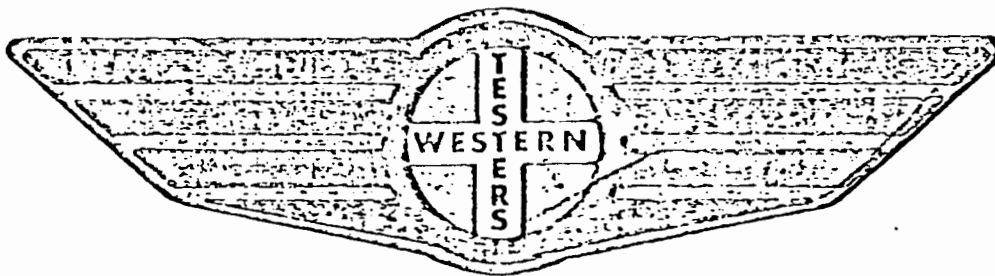


# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 9/25/84  
CUSTOMER: GRUSS PETROLEUM MANAGEMENT  
WELL: 1 TEST: 1  
ELEVATION (KB): 2312 FORMATION: MISSISSIPPI  
SECTION: 29 TOWNSHIP: 26S  
RANGE: 21W COUNTY: FORD STATE: KANSAS  
GAUGE SN #6233 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 4805 FT TO: 4825 FT TOTAL DEPTH: 4825 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4800 FT SIZE: 6 3/4 IN PAKER DEPTH: 4805 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CHEYENNE DRLG  
MUD TYPE: POLY PAC VISCOSITY: 48  
WEIGHT: 9.3 WATER LOSS (CC): 13.7  
CHLORIDES (P.P.M.): 13000  
JARS - MAKE: WTC SERIAL NUMBER: 421  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 560 FT I.D.: 2.2 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4215 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 20 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: INITIAL FLOW PERIOD FAIR BLOW.  
6" IN WATER. FINAL FLOW PERIOD  
STRONG BLOW. 8" IN WATER.

RECOVERED: 30 FT OF: SLIGHTLY OIL CUT MUD.  
RECOVERED: FT OF: 5% OIL; 95% MUD.  
RECOVERED: 180 FT OF: WATER. CHLORIDES 36000 PPM.  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS: CLOCK STOPPED ON THE FINAL SHUT-IN.

TIME SET PACKER(S): 10:50 PM TIME STARTED OFF BOTTOM: 4:05 AM  
WELL TEMPERATURE: 124 'F  
INITIAL HYDROSTATIC PRESSURE: (A) 2356 PSI  
INITIAL FLOW PERIOD MIN: 45 (B) 57 PSI TO (C) 84 PSI  
INITIAL CLOSED IN PERIOD MIN: 87 (D) 1079 PSI  
FINAL FLOW PERIOD MIN: 60 (E) 109 PSI TO (F) 135 PSI  
FINAL CLOSED IN PERIOD MIN: 48 (G) 544 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2350 PSI

WESTERN TESTING CO. INC.  
PRESSURE DATA

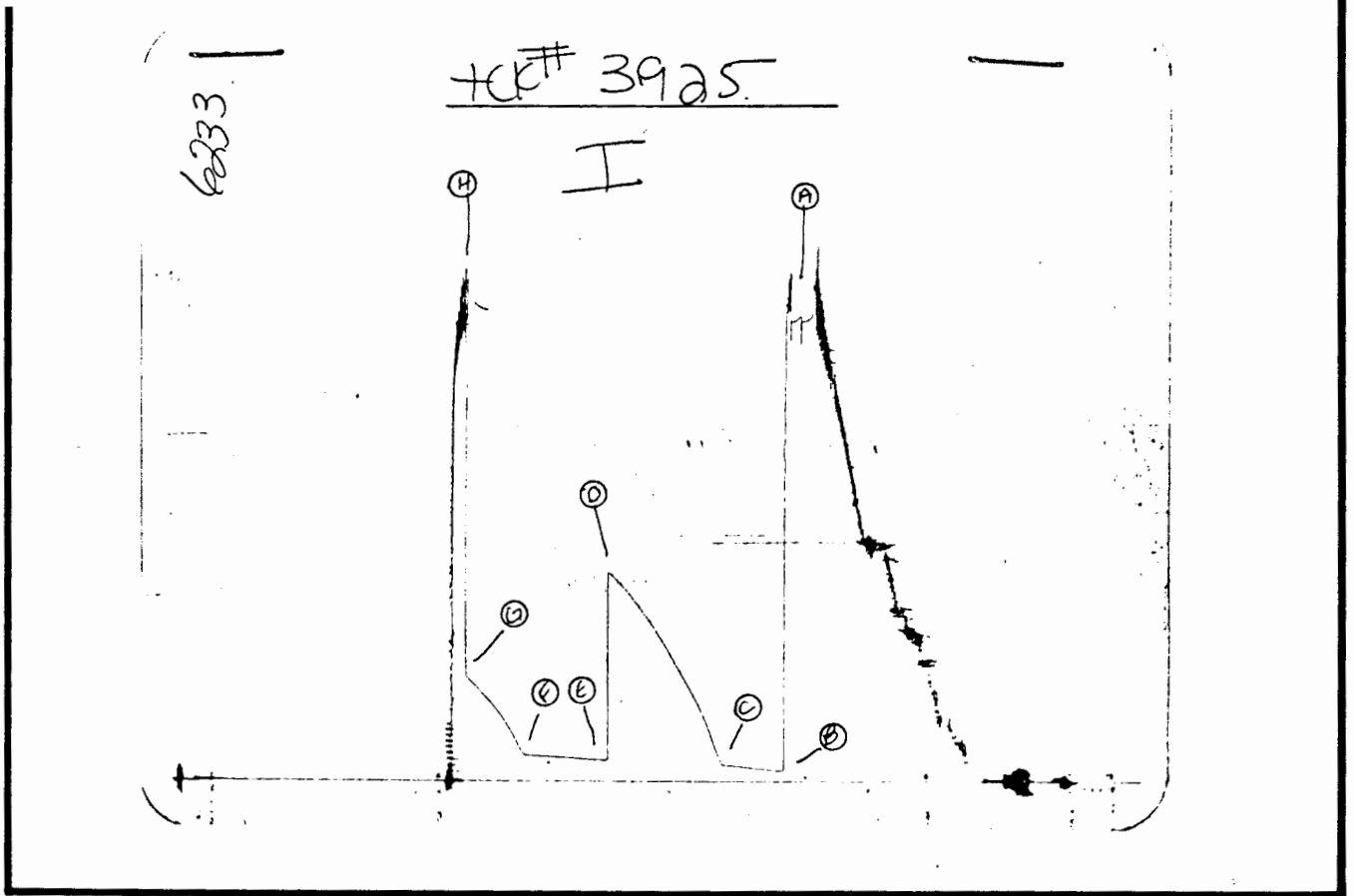
DATE: 9/25/84	TICKET #3925
CUSTOMER: GRUSS PETROLEUM MANAGEMENT	LEASE: VAN NAHMEN
WELL: 1	TEST: 1
ELEVATION (KB): 2312	FORMATION: MISSISSIPPI
SECTION: 29	TOWNSHIP: 26S
RANGE: 21W	COUNTY: FORD
Gauge SN #6233	RANGE: 4000
	STATE: KANSAS
	CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2356	PSI
(B) FIRST INITIAL FLOW PRESSURE:	57	PSI
(C) FIRST FINAL FLOW PRESSURE:	84	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1079	PSI
(E) SECOND INITIAL FLOW PRESSURE:	109	PSI
(F) SECOND FINAL FLOW PRESSURE:	135	PSI
(G) FINAL CLOSED-IN PRESSURE:	544	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2350	PSI
WELL TEMPERATURE:	124	'F
OPEN TOOL:	10:50 PM	

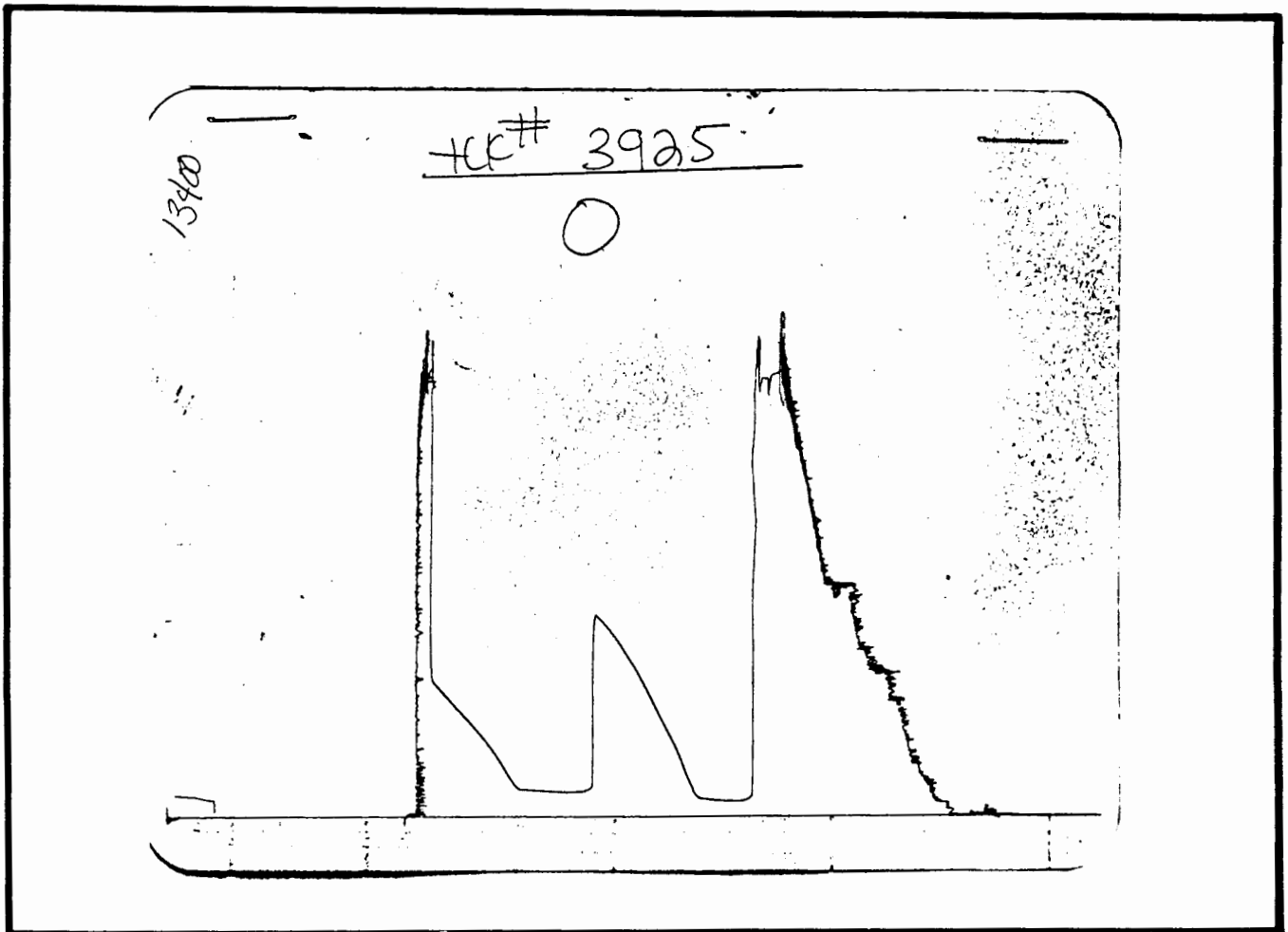
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	90 MIN	87 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	120 MIN	48 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	57	0	84	0	109	0	135
2	5	57	3	115	5	111	3	157
3	10	60	6	161	10	113	6	197
4	15	63	9	222	15	115	9	236
5	20	67	12	276	20	117	12	273
6	25	71	15	327	25	119	15	307
7	30	75	18	372	30	121	18	337
8	35	79	21	414	35	123	21	365
9	40	82	24	456	40	125	24	390
10	45	84	27	494	45	127	27	418
11			30	528	50	129	30	440
12			33	567	55	132	33	460
13			36	603	60	135	36	480
14			39	637			39	500
15			42	675			42	520
16			45	711			45	535
17			48	744			48	544
18			51	777				
19			54	808				
20			57	839				
21			60	866				
22			63	892				
23			66	920				
24			69	948				
25			72	973				
26			75	997				
27			78	1019				
28			81	1042				
29			84	1062				
30			87	1079				



Inside Recorder



Outside Recorder



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 9/26/84 TICKET #18176  
 CUSTOMER: GRUSS PETROLEUM MANAGEMENT LEASE: VAN NAHMEN  
 WELL: 1 TEST: 2 GEOLOGIST: MEREDITH  
 ELEVATION (KB): 2312 FORMATION: MISSISSIPPI  
 SECTION: 29 TOWNSHIP: 26S  
 RANGE: 21W COUNTY: FORD STATE: KANSAS  
 GAUGE SN #6233 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 4820 FT TO: 4840 FT TOTAL DEPTH: 4840 FT  
 DEPTH OF SELECTIVE ZONE: FT  
 PACKER DEPTH: 4815 FT SIZE: 6 3/4 IN PACKER DEPTH: 4820 FT SIZE: 6 3/4 IN  
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CHEYENNE DRLG  
 MUD TYPE: POLY PAC VISCOSITY: 49  
 WEIGHT: 9.3 WATER LOSS (CC): 13.6  
 CHLORIDES (P.P.M.): 15000  
 JARS - MAKE: WTC SERIAL NUMBER: 421  
 DID WELL FLOW? NO REVERSED OUT? NO  
 DRILL COLLAR LENGTH: 560 FT I.D.: 2.2 IN  
 WEIGHT PIPE LENGTH: FT I.D.: IN  
 DRILL PIPE LENGTH: 4230 FT I.D.: 3.8 IN  
 TEST TOOL LENGTH: 30 FT TOOL SIZE: 5 1/2 OD IN  
 ANCHOR LENGTH: 20 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: INITIAL FLOW PERIOD STRONG BLOW.  
 8" IN WATER. FINAL FLOW PERIOD  
 FAIR BLOW. 4" IN WATER.

RECOVERED: 20 FT OF: MUD CUT OIL (60% OIL; 40% MUD).  
 RECOVERED: 660 FT OF: WATER. CHLORIDES 40000 PPM.  
 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): 8:20 PM TIME STARTED OFF BOTTOM: 1:35 AM  
 WELL TEMPERATURE: 124 °F  
 INITIAL HYDROSTATIC PRESSURE: (A) 2391 PSI  
 INITIAL FLOW PERIOD MIN: 45 (B) 71 PSI TO (C) 211 PSI  
 INITIAL CLOSED IN PERIOD MIN: 90 (D) 1518 PSI  
 FINAL FLOW PERIOD MIN: 60 (E) 260 PSI TO (F) 331 PSI  
 FINAL CLOSED IN PERIOD MIN: 120 (G) 1522 PSI  
 FINAL HYDROSTATIC PRESSURE (H) 2366 PSI

WESTERN TESTING CO. INC.  
PRESSURE DATA

DATE: 9/26/84	TICKET #18176
CUSTOMER: GRUSS PETROLEUM MANAGEMENT	LEASE: VAN NAHMEN
WELL: 1	TEST: 2
ELEVATION (KB): 2312	FORMATION: MISSISSIPPI
SECTION: 29	TOWNSHIP: 26S
RANGE: 21W	COUNTY: FORD
GAUGE SN #6233	RANGE: 4000
	STATE: KANSAS
	CLOCK: 12

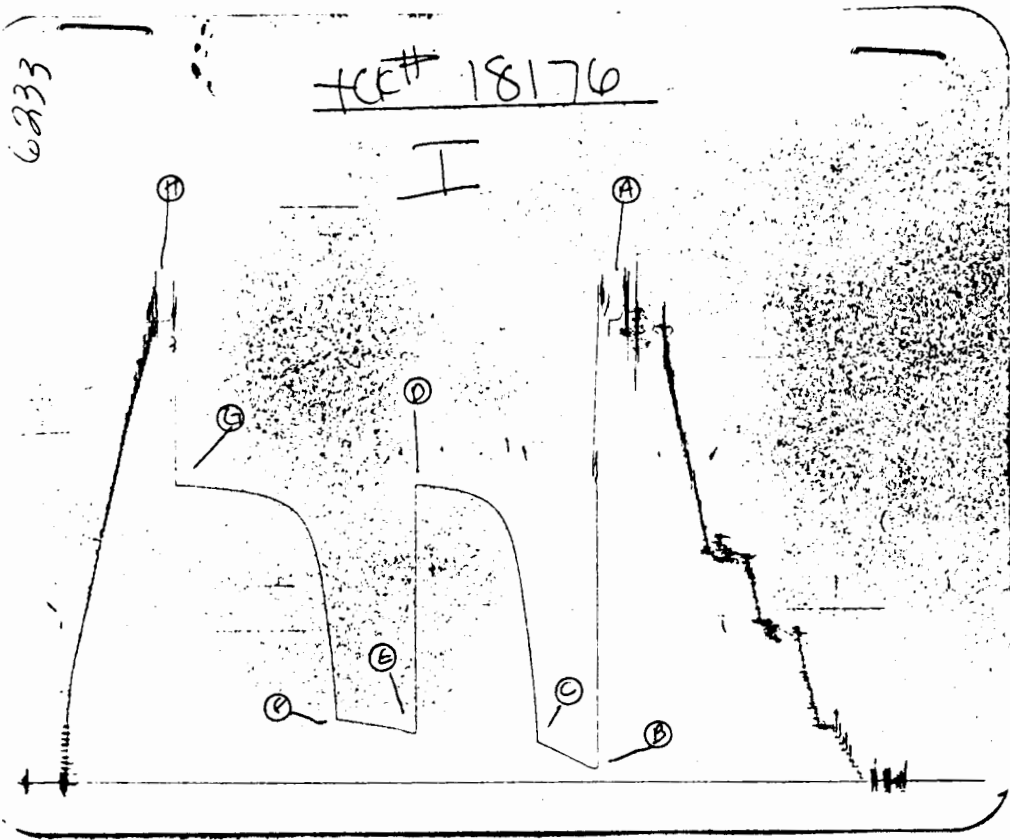
(A) INITIAL HYDROSTATIC PRESSURE: 2391 PSI  
 (B) FIRST INITIAL FLOW PRESSURE: 71 PSI  
 (C) FIRST FINAL FLOW PRESSURE: 211 PSI  
 (D) INITIAL CLOSED-IN PRESSURE: 1518 PSI  
 (E) SECOND INITIAL FLOW PRESSURE: 260 PSI  
 (F) SECOND FINAL FLOW PRESSURE: 331 PSI  
 (G) FINAL CLOSED-IN PRESSURE: 1522 PSI  
 (H) FINAL HYDROSTATIC PRESSURE: 2366 PSI  
 WELL TEMPERATURE: 124 °F  
 OPEN TOOL: 8:20 PM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	90 MIN	90 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	120 MIN	120 MIN

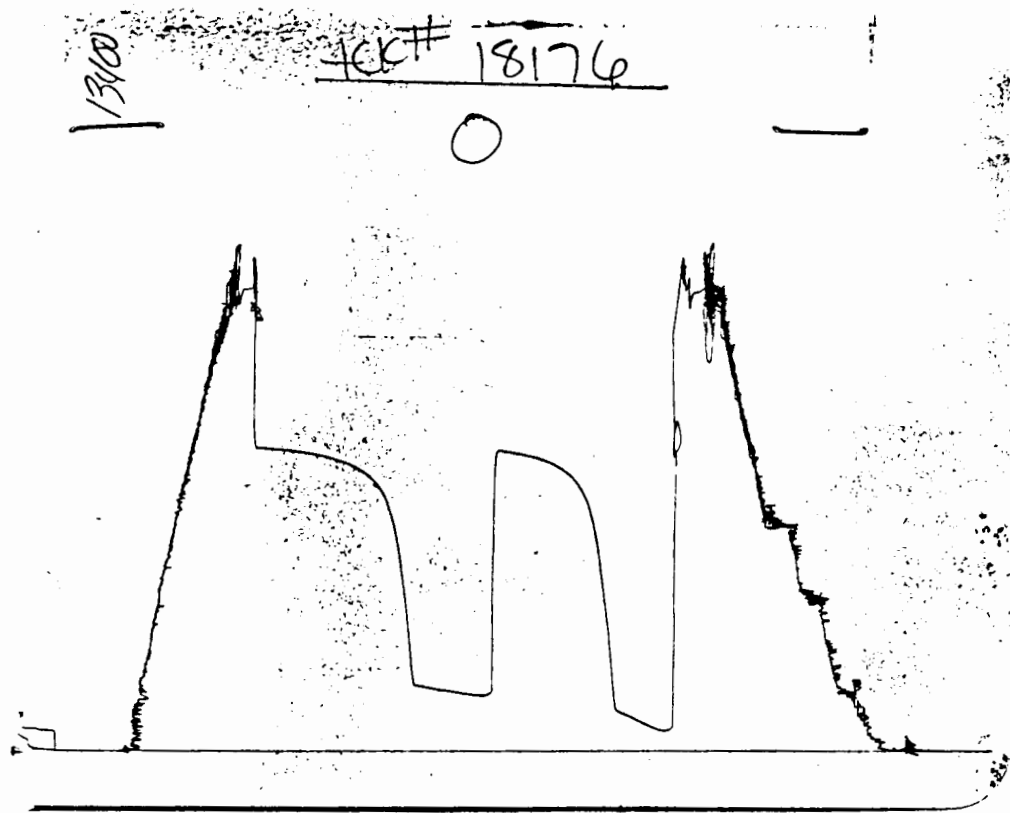
PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	71	0	211	0	260	0	331
2	5	75	3	509	5	261	3	580
3	10	93	6	698	10	274	6	746
4	15	111	9	845	15	283	9	893
5	20	129	12	972	20	291	12	1038
6	25	147	15	1093	25	297	15	1143
7	30	165	18	1193	30	303	18	1220
8	35	183	21	1261	35	308	21	1274
9	40	199	24	1312	40	313	24	1315
10	45	211	27	1349	45	319	27	1347
11			30	1378	50	323	30	1373
12			33	1400	55	327	33	1392
13			36	1418	60	331	36	1408
14			39	1433			39	1423
15			42	1445			42	1433
16			45	1454			45	1443
17			48	1463			48	1452
18			51	1472			51	1460
19			54	1478			54	1466
20			57	1484			57	1471
21			60	1490			60	1476
22			63	1494			63	1480
23			66	1497			66	1484
24			69	1500			69	1488
25			72	1503			72	1492
26			75	1506			75	1495
27			78	1509			78	1498
28			81	1512			81	1501
29			84	1514			84	1503
30			87	1516			87	1505





Inside Recorder



Outside Recorder