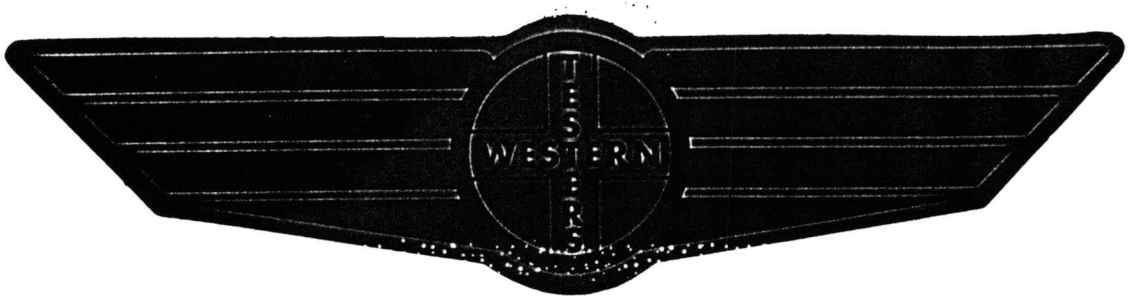
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

COMPANY HAZELWOOD PRODUCTION & EXPLOR LEASE & WELL NO. #1 FRANSWORTH SEC. 17 TWP. 29S RGE. 3W TEST NO. 1 DATE 12/17/86

WESTERN TESTERS INC
SUBSURFACE PRESSURE SURVEY

DATE	: 12-17-86			TICKET	: 11677
CUSTOMER	: HAZELWOOD PRODUCTION & EXPLORATION CO.				
				LEASE	: FARNSWORTH
WELL	: #1	TEST: 1		GEOLOGIST	: G. SHAFFER
ELEVATION	: 1327			FORMATION	: K.C.
SECTION	: 17			TOWNSHIP	: 29S
RANGE	: 3W	COUNTY :	SEDGWICK	STATE	: KS
GAUGE SN#	: 10979	RANGE :	4100	CLOCK	: 12

INTERVAL FROM	: 3172	TO	: 3184	TOTAL DEPTH	: 3184
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3172	SIZE	: 6.75		
PACKER DEPTH	: 3167	SIZE	: 6.75		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: BRANDT DRLG CO.		
MUD TYPE	: CHEMICAL	VISCOSITY	: 49
WEIGHT	: 9.0	WATER LOSS (CC)	: 10.4
CHLORIDES (PPM)	: 16000		
JARS-MAKE	: WTC	SERIAL NUMBER	: 411
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 430	FT	I.D. inch	: 2.25	
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00	
DRILL PIPE LENGTH	: 2714	FT	I.D. inch	: 3.80	
TEST TOOL LENGTH	: 28	FT	TOOL SIZE	: 5.50	
ANCHOR LENGTH	: 12	FT	ANCHOR SIZE	: 5.50	
SURFACE CHOKE SIZE	: .75	IN	BOTTOM CHOKE SIZE	: .75	
MAIN HOLE SIZE	: 7.875	IN	TOOL JOINT SIZE	: 4.5XH	

BLOW COMMENT #1 : WEAK BLOW THROUGHOUT TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: OIL CUT MDDY SALT WTR 30%OIL
RECOVERED : 55 FT OF: MUDDY SALT WTR W/SLI SHOW OF OIL
RECOVERED : 0 FT OF: OIL LESS THAN 1%

Total Barrels Fluid = 0.32
Total Fluid Prod Rate = 5.11 BFPD
Indicated Oil Rate = 0.28 BOPD
Indicated Wtr Rate = 3.93 BWPD
Corrected Oil Rate = 5.88 BOPD
Corrected Wtr Rate = 83.98 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 52000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 2:30 AM TIME STARTED OFF BOTTOM : 7:00 AM
WELL TEMPERATURE : 112

INITIAL HYDROSTATIC PRESSURE			(A)	1567	
INITIAL FLOW PERIOD	MIN:	30	(B)	17	PSI TO (C) : 28
INITIAL CLOSED IN PERIOD	MIN:	60	(D)	1280	
FINAL FLOW PERIOD	MIN:	60	(E)	38	PSI TO (F) : 45
FINAL CLOSED IN PERIOD	MIN:	120	(G)	1286	
FINAL HYDROSTATIC PRESSURE			(H)	1542	

WESTERN TESTERS INC
WITICHA - KANSAS

Pressure Transient Report

COMPANY	:	HAZELWOOD PRODUCTION & EXPLORATION CO.
RIG	:	SEDGWICK-KS
FIELD	:	FARNSWORTH
WELL	:	#1
DATE	:	12-17-86
GAUGE NO	:	10979

OPERATIONAL COMMENTS

CHLORIDES 52000 PPM

COMPANY : HAZELWOOD PRODUCTION & EXPLORATION CO.

FIELD : FARNSWORTH

WELL : #1

JOB # : 11677

GAUGE # : 10979

DEPTH : 3184

DATE : 17/12/86

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:30: 0	0.000	17.000	112.00	0.000
2	2:34:59	0.083	17.000	112.00	0.000
3	2:40: 0	0.167	21.000	112.00	4.000
4	2:45: 0	0.250	23.000	112.00	2.000
5	2:49:59	0.333	24.000	112.00	1.000
6	2:55: 0	0.417	26.000	112.00	2.000
7	3: 0: 0	0.500	28.000	112.00	2.000
8	3: 3: 0	0.550	42.000	112.00	14.000
9	3: 6: 0	0.600	64.000	112.00	22.000
10	3: 9: 0	0.650	103.000	112.00	39.000
11	3:12: 0	0.700	195.000	112.00	92.000
12	3:15: 0	0.750	410.000	112.00	215.000
13	3:18: 0	0.800	707.000	112.00	297.000
14	3:21: 0	0.850	972.000	112.00	265.000
15	3:24: 0	0.900	1096.000	112.00	124.000
16	3:27: 0	0.950	1149.000	112.00	53.000
17	3:30: 0	1.000	1182.000	112.00	33.000
18	3:33: 0	1.050	1207.000	112.00	25.000
19	3:36: 0	1.100	1224.000	112.00	17.000
20	3:39: 0	1.150	1235.000	112.00	11.000
21	3:42: 0	1.200	1244.000	112.00	9.000
22	3:45: 0	1.250	1253.000	112.00	9.000
23	3:48: 0	1.300	1260.000	112.00	7.000
24	3:51: 0	1.350	1267.000	112.00	7.000
25	3:54: 0	1.400	1273.000	112.00	6.000
26	3:57: 0	1.450	1277.000	112.00	4.000
27	4: 0: 0	1.500	1280.000	112.00	3.000
28	4: 1: 0	1.517	38.000	112.00	-1242.000
29	4: 4:59	1.583	38.000	112.00	0.000
30	4:10: 0	1.667	39.000	112.00	1.000
31	4:15: 0	1.750	40.000	112.00	1.000
32	4:19:59	1.833	41.000	112.00	1.000
33	4:25: 0	1.917	42.000	112.00	1.000
34	4:30: 0	2.000	43.000	112.00	1.000
35	4:34:59	2.083	44.000	112.00	1.000
36	4:40: 0	2.167	45.000	112.00	1.000
37	4:45: 0	2.250	45.000	112.00	0.000
38	4:49:59	2.333	45.000	112.00	0.000
39	4:55: 0	2.417	45.000	112.00	0.000
40	5: 0: 0	2.500	45.000	112.00	0.000
41	5: 3: 0	2.550	53.000	112.00	8.000
42	5: 6: 0	2.600	68.000	112.00	15.000
43	5: 9: 0	2.650	94.000	112.00	26.000
44	5:12: 0	2.700	136.000	112.00	42.000
45	5:15: 0	2.750	222.000	112.00	86.000
46	5:18: 0	2.800	435.000	112.00	213.000
47	5:21: 0	2.850	725.000	112.00	290.000
48	5:24: 0	2.900	932.000	112.00	207.000
49	5:27: 0	2.950	1048.000	112.00	116.000
50	5:30: 0	3.000	1106.000	112.00	58.000
51	5:33: 0	3.050	1136.000	112.00	30.000
52	5:36: 0	3.100	1160.000	112.00	24.000

COMPANY : HAZELWOOD PRODUCTION & EXPLORATION CO.

FIELD : FARNSWORTH

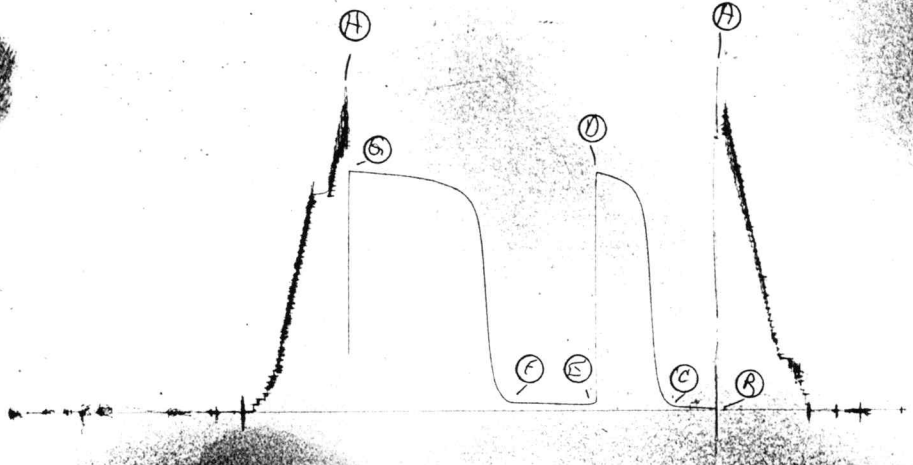
WELL : #1
GAUGE # : 10979
DATE : 17/12/86

JOB # : 11677
DEPTH : 3184
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	5:39: 0	3.150	1174.000	112.00	14.000
54	5:42: 0	3.200	1188.000	112.00	14.000
55	5:45: 0	3.250	1198.000	112.00	10.000
56	5:48: 0	3.300	1206.000	112.00	8.000
57	5:51: 0	3.350	1213.000	112.00	7.000
58	5:54: 0	3.400	1220.000	112.00	7.000
59	5:57: 0	3.450	1229.000	112.00	9.000
60	6: 0: 0	3.500	1234.000	112.00	5.000
61	6: 3: 0	3.550	1238.000	112.00	4.000
62	6: 6: 0	3.600	1242.000	112.00	4.000
63	6: 9: 0	3.650	1246.000	112.00	4.000
64	6:12: 0	3.700	1250.000	112.00	4.000
65	6:15: 0	3.750	1254.000	112.00	4.000
66	6:18: 0	3.800	1258.000	112.00	4.000
67	6:21: 0	3.850	1260.000	112.00	2.000
68	6:24: 0	3.900	1262.000	112.00	2.000
69	6:27: 0	3.950	1264.000	112.00	2.000
70	6:30: 0	4.000	1266.000	112.00	2.000
71	6:33: 0	4.050	1268.000	112.00	2.000
72	6:36: 0	4.100	1270.000	112.00	2.000
73	6:39: 0	4.150	1272.000	112.00	2.000
74	6:42: 0	4.200	1274.000	112.00	2.000
75	6:45: 0	4.250	1276.000	112.00	2.000
76	6:48: 0	4.300	1278.000	112.00	2.000
77	6:51: 0	4.350	1280.000	112.00	2.000
78	6:54: 0	4.400	1282.000	112.00	2.000
79	6:57: 0	4.450	1284.000	112.00	2.000
80	7: 0: 0	4.500	1286.000	112.00	2.000

RP 11677

I



TKt 11677

13265

