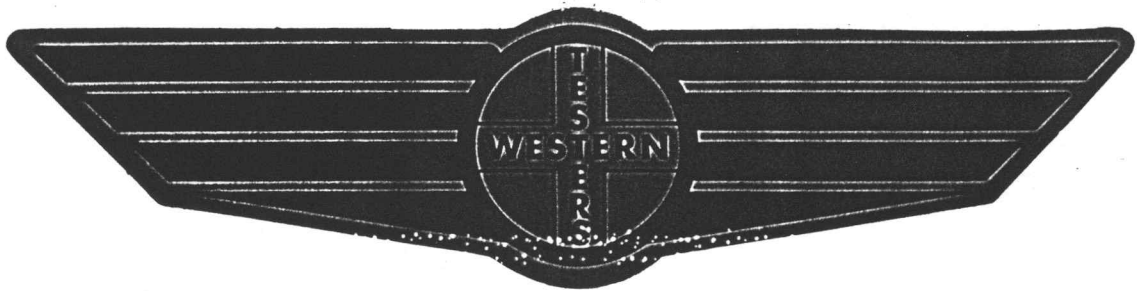


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY BERENTZ DRILLING COMPANY LEASE & WELL NO. #1 HAWTHORNE SEC. 27 TWP. 25S RGE. 8E TEST NO. 1 DATE 1/10/87

WESTERN TESTERS INC
SUBSURFACE PRESSURE SURVEY

DATE : 1-10-87 TICKET : 11686
CUSTOMER : BERENTZ DRILLING COMPANY LEASE : HAWTHORNE
WELL : #1 TEST: 1 GEOLOGIST : I. PHILLIPS
ELEVATION : 1534 KB FORMATION : VIOLA
SECTION : 27 TOWNSHIP : 25S
RANGE : 8E COUNTY : GREENWOOD STATE : KANSAS
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 3086 TO : 3101 TOTAL DEPTH : 3101
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3086 SIZE : 6.75
PACKER DEPTH : 6081 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BERENTZ RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 45
WEIGHT : 9.2 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 900
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : YES

DRILL COLLAR LENGTH : 303 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2763 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 15 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : STRONG BLOW THROUGHOUT THE TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 1350 FT OF: SALT WATER .86 RES. @ 48 DEG. F.

Total Barrels Fluid = - 16.78
Total Fluid Prod Rate = 517.62 BFPD
Indicated Wtr Rate = 517.62 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 32000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	8:00 PM	TIME STARTED OFF BOTTOM :	10:15 PM
WELL TEMPERATURE :	116		
INITIAL HYDROSTATIC PRESSURE		(A)	1505
INITIAL FLOW PERIOD MIN:	15	(B)	106 PSI TO (C) : 322
INITIAL CLOSED IN PERIOD MIN:	48	(D)	1016
FINAL FLOW PERIOD MIN:	30	(E)	384 PSI TO (F) : 629
FINAL CLOSED IN PERIOD MIN:	45	(G)	1014
FINAL HYDROSTATIC PRESSURE		(H)	1481

WESTERN TESTERS INC
WITICHA - KANSAS

Pressure Transient Report

COMPANY : BERENTZ DRILLING COMPANY
RIG : GREENWOOD-KANSAS
FIELD : HAWTHORNE
WELL : #1
DATE : 1-10-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

CHLORIDES: 32000 PPM

COMPANY : BERENTZ DRILLING COMPANY
WELL : #1
GAUGE # : 10979
DATE : 10/ 1/87

FIELD : HAWTHORNE
JOB # : 11686
DEPTH : 3101
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
1	8: 0: 0	0.000	106.000	116.00	0.000
2	8: 4: 59	0.083	194.000	116.00	88.000
3	8:10: 0	0.167	257.000	116.00	63.000
4	8:15: 0	0.250	322.000	116.00	65.000
5	8:18: 0	0.300	607.000	116.00	285.000
6	8:21: 0	0.350	991.000	116.00	384.000
7	8:24: 0	0.400	1002.000	116.00	11.000
8	8:27: 0	0.450	1004.000	116.00	2.000
9	8:30: 0	0.500	1008.000	116.00	4.000
10	8:33: 0	0.550	1012.000	116.00	4.000
11	8:36: 0	0.600	1014.000	116.00	2.000
12	8:39: 0	0.650	1015.000	116.00	1.000
13	8:42: 0	0.700	1016.000	116.00	1.000
14	8:45: 0	0.750	1016.000	116.00	0.000
15	8:48: 0	0.800	1016.000	116.00	0.000
16	8:51: 0	0.850	1016.000	116.00	0.000
17	8:54: 0	0.900	1016.000	116.00	0.000
18	8:57: 0	0.950	1016.000	116.00	0.000
19	9: 0: 0	1.000	1016.000	116.00	0.000
20	9: 2: 59	1.050	1016.000	116.00	0.000
21	9: 4: 0	1.067	384.000	116.00	-632.000
22	9: 7: 59	1.133	393.000	116.00	9.000
23	9:13: 0	1.217	443.000	116.00	50.000
24	9:18: 0	1.300	491.000	116.00	48.000
25	9:22: 59	1.383	537.000	116.00	46.000
26	9:28: 0	1.467	578.000	116.00	41.000
27	9:33: 0	1.550	629.000	116.00	51.000
28	9:35: 59	1.600	977.000	116.00	348.000
29	9:39: 0	1.650	1000.000	116.00	23.000
30	9:41: 59	1.700	1007.000	116.00	7.000
31	9:45: 0	1.750	1009.000	116.00	2.000
32	9:48: 0	1.800	1010.000	116.00	1.000
33	9:50: 59	1.850	1010.000	116.00	0.000
34	9:54: 0	1.900	1010.000	116.00	0.000
35	9:56: 59	1.950	1010.000	116.00	0.000
36	10: 0: 0	2.000	1010.000	116.00	0.000
37	10: 3: 0	2.050	1010.000	116.00	0.000
38	10: 5: 59	2.100	1011.000	116.00	1.000
39	10: 9: 0	2.150	1012.000	116.00	1.000
40	10:11: 59	2.200	1013.000	116.00	1.000
41	10:15: 0	2.250	1014.000	116.00	1.000
42	10:18: 0	2.300	1014.000	116.00	0.000

WESTERN TESTERS INC

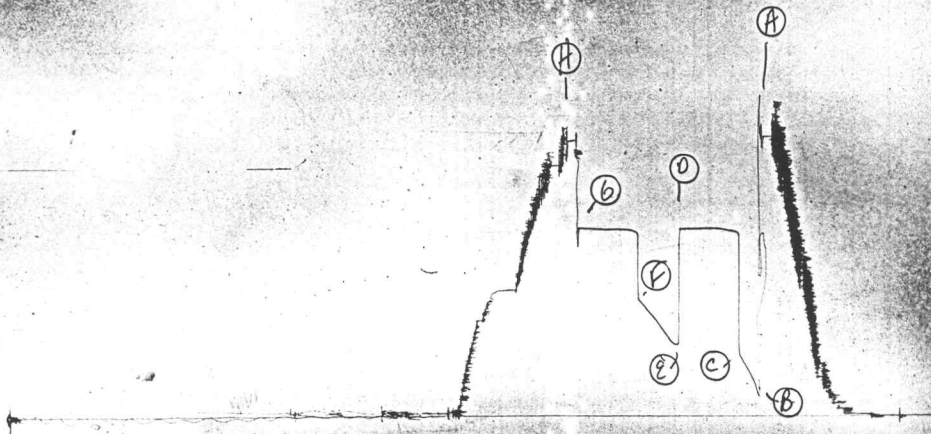
10979

OST#1

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It # 11686

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