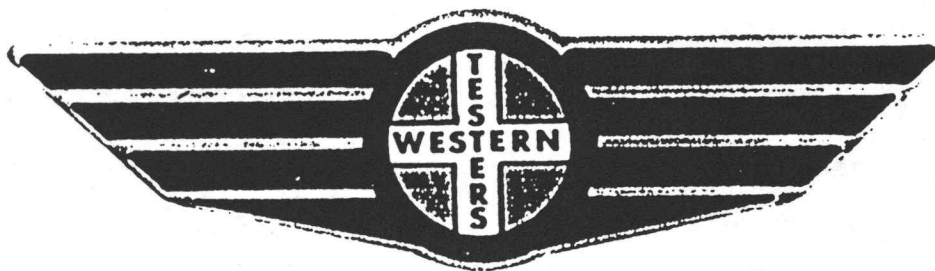


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

RINE EXPLORATION

LEASE & WELL NO. HINEMAN C 1-19

SEC. 19 TWP. 19S RGE. 28WEST NO. 1 DATE 8/19/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-19-88	TICKET : 13233
CUSTOMER : RINE EXPLORATION	LEASE : HINEMAN C
WELL : 1-19 TEST: 1	GEOLOGIST : T. McELROY
ELEVATION : 2785	FORMATION :
SECTION : 19	TOWNSHIP : 19S
RANGE : 28W COUNTY : LANE	STATE : KANSAS
GAUGE SN# : 6233 RANGE : 4000	CLOCK : 12

INTERVAL FROM : 4502	TO : 4584	TOTAL DEPTH : 4584
DEPTH OF SELECTIVE ZONE :		
PACKER DEPTH : 4502	SIZE : 6.75	
PACKER DEPTH : 4497	SIZE : 6.75	
PACKER DEPTH :	SIZE :	
PACKER DEPTH :	SIZE :	

DRILLING CON. : ABERCROMBIE DRLG. #1	
MUD TYPE : DAPAC	VISCOSITY : 45
WEIGHT : 9.5	WATER LOSS (CC) : 10.8
CHLORIDES (PPM) : 4000	
JARS-MAKE :	SERIAL NUMBER :
DID WELL FLOW ? :	REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT	I.D. inch : 0.00
WEIGHT PIPE LENGTH : 477 FT	I.D. inch : 3.20
DRILL PIPE LENGTH : 4005 FT	I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT	TOOL SIZE : 5.50
ANCHOR LENGTH : 82 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 : INITIAL FLOW PERIOD - WEAK STEADY BLOW 1/2" IN WTR.
 BLOW COMMENT #2 : FINAL FLOW PERIOD - NO BLOW
 BLOW COMMENT #3 :
 BLOW COMMENT #4 :

RECOVERED : 10 FT OF: MUD

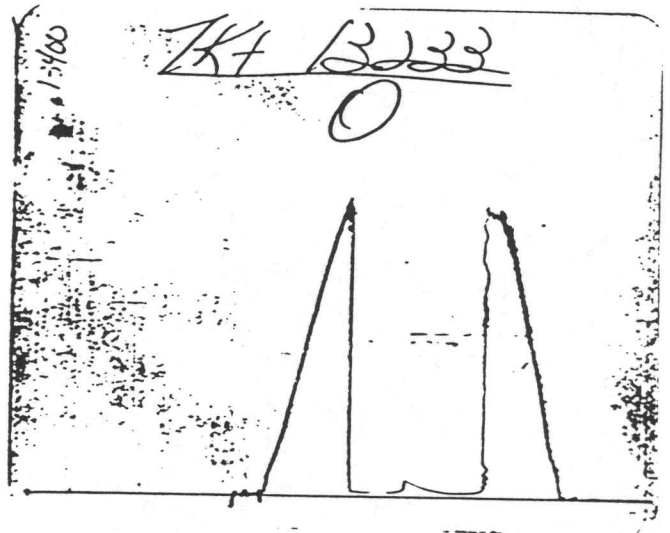
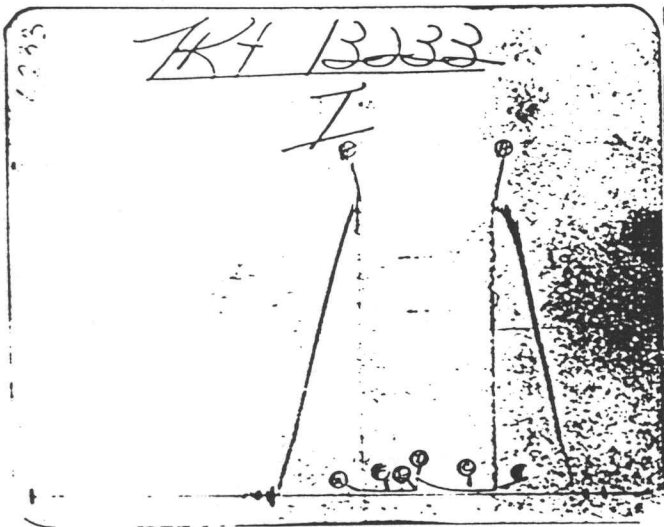
Total Barrels Fluid = 0.10
Total Fluid Prod Rate = 2.39 BFPD
Indicated Wtr Rate = 0.24 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 6000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:35 PM
WELL TEMPERATURE : 131
INITIAL HYDROSTATIC PRESSURE
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 60
FINAL FLOW PERIOD MIN: 30
FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 2:05 AM

(A) 2327
(B) 32 PSI TO (C) : 32
(D) 140
(E) 34 PSI TO (F) : 34
(G) 40
(H) 2310



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RINE EXPLORATION
RIG : LANE-KANSAS
FIELD : HINEMAN C
WELL : 1-19
DATE : 8-19-88
GAUGE NO : 6233

OPERATIONAL COMMENTS

CHLORIDES 6000 PPM

COMPANY : RINE EXPLORATION
 WELL : 1-19
 GAUGE # : 6233
 DATE : 19/ 8/88

FIELD : HINEMAN C
 JOB # : 13233
 DEPTH : 4584
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	11:35: 0	0.000	32.000	131.00	0.000
3	11:39:59	0.083	32.000	131.00	0.000
4	11:45: 0	0.167	32.000	131.00	0.000
5	11:50: 0	0.250	32.000	131.00	0.000
6	11:54:59	0.333	32.000	131.00	0.000
7	12: 0: 0	0.417	32.000	131.00	0.000
8	12: 5: 0	0.500	32.000	131.00	0.000
INITIAL SHUT IN					
9	12: 8: 0	0.550	32.000	131.00	0.000
10	12:11: 0	0.600	32.000	131.00	0.000
11	12:14: 0	0.650	34.000	131.00	2.000
12	12:17: 0	0.700	35.000	131.00	1.000
13	12:20: 0	0.750	36.000	131.00	1.000
14	12:23: 0	0.800	38.000	131.00	2.000
15	12:26: 0	0.850	39.000	131.00	1.000
16	12:29: 0	0.900	41.000	131.00	2.000
17	12:32: 0	0.950	46.000	131.00	5.000
18	12:35: 0	1.000	49.000	131.00	3.000
19	12:38: 0	1.050	54.000	131.00	5.000
20	12:41: 0	1.100	59.000	131.00	5.000
21	12:44: 0	1.150	65.000	131.00	6.000
22	12:47: 0	1.200	71.000	131.00	6.000
23	12:50: 0	1.250	81.000	131.00	10.000
24	12:53: 0	1.300	91.000	131.00	10.000
25	12:56: 0	1.350	103.000	131.00	12.000
26	12:59: 0	1.400	112.000	131.00	9.000
27	13: 2: 0	1.450	124.000	131.00	12.000
28	13: 5: 0	1.500	140.000	131.00	16.000
FINAL FLOW PERIOD					
29	13: 6: 0	1.517	34.000	131.00	-106.000
30	13: 9:59	1.583	34.000	131.00	0.000
31	13:15: 0	1.667	34.000	131.00	0.000
32	13:20: 0	1.750	34.000	131.00	0.000
33	13:24:59	1.833	34.000	131.00	0.000
34	13:30: 0	1.917	34.000	131.00	0.000
35	13:35: 0	2.000	34.000	131.00	0.000
FINAL SHUT IN					
36	13:38: 0	2.050	34.000	131.00	0.000
37	13:41: 0	2.100	34.000	131.00	0.000
38	13:44: 0	2.150	34.000	131.00	0.000
39	13:47: 0	2.200	34.000	131.00	0.000
40	13:50: 0	2.250	35.000	131.00	1.000
41	13:53: 0	2.300	36.000	131.00	1.000
42	13:56: 0	2.350	37.000	131.00	1.000
43	13:59: 0	2.400	39.000	131.00	2.000
44	14: 2: 0	2.450	39.000	131.00	0.000
45	14: 5: 0	2.500	40.000	131.00	1.000