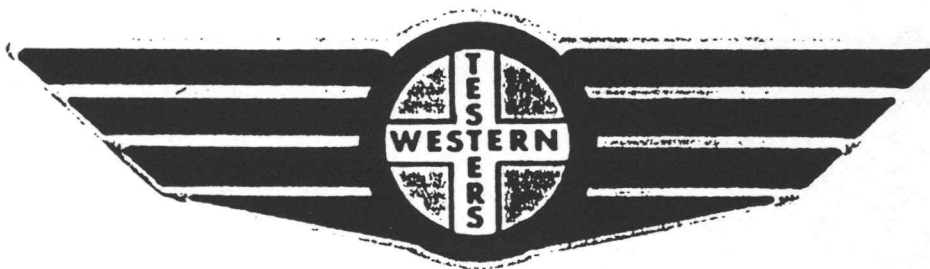


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	11-28-87	TICKET	:	11127	
CUSTOMER	:	PENDLETON / H&C / RAMCO	LEASE	:	REDETZKE	
WELL	:	#2	TEST:	:	1	
ELEVATION	:	NA	GEOLOGIST	:	D. DAVIS	
SECTION	:	3	FORMATION	:	ARBUCKLE	
RANGE	:	13W	TOWNSHIP	:	17S	
GAUGE SN#	:	10270	STATE	:	KANSAS	
		COUNTY :	BARTON	CLOCK	:	12
		RANGE :	4150			

INTERVAL FROM	:	3381	TO	:	3440	TOTAL DEPTH	:	3440
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3376	SIZE	:	6.63			
PACKER DEPTH	:	3381	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	ALLEN RIG #1			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47
WEIGHT	:	9.4	WATER LOSS (CC)	:	8
CHLORIDES (PPM)	:	8000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	421
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	120	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3236	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	25	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	59	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 : INITIAL FLOW-WEAK BLOW THROUGHOUT- 1/2" TO 1 1/2" BLOW.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW THROUGHOUT-1" BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED .: . *135 FT OF: MUD / SCUM OF OIL IN GRINDOUT

Total Barrels Fluid = 0.77
Total Fluid Prod Rate = 18.59 BFPD
Indicated Wtr Rate = 1.79 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 10:50 AM
WELL TEMPERATURE : 111

TIME STARTED OFF BOTTOM : 1:20 PM

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 48

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 48

FINAL HYDROSTATIC PRESSURE

(A) 1697

(B) 57 PSI TO (C) : 69

(D) 1091

(E) 87 PSI TO (F) : 94

(G) 1081

(H) 1682

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : PENDLETON / H&C / RAMCO
RIG : BARTON-KANSAS
FIELD : REDETZKE
WELL : #2
DATE : 11-28-87
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : PENDLETON / H&C / RAMCO
WELL : #2
GAUGE # : 10270
DATE : 28/11/87

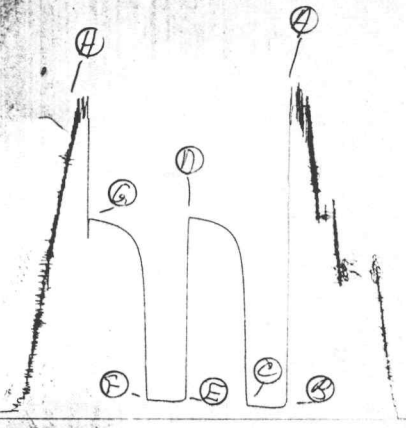
FIELD : REDETZKE
JOB # : 11127
DEPTH : 3440
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	10:50: 0	0.000	57.000	111.00	0.000
2	10:54:59	0.083	57.000	111.00	0.000
3	11: 0: 0	0.167	57.000	111.00	0.000
4	11: 5: 0	0.250	59.000	111.00	2.000
5	11: 9:59	0.333	63.000	111.00	4.000
6	11:15: 0	0.417	66.000	111.00	3.000
7	11:20: 0	0.500	69.000	111.00	3.000
8	11:23: 0	0.550	453.000	111.00	384.000
9	11:26: 0	0.600	745.000	111.00	292.000
10	11:29: 0	0.650	881.000	111.00	136.000
11	11:32: 0	0.700	950.000	111.00	69.000
12	11:35: 0	0.750	991.000	111.00	41.000
13	11:38: 0	0.800	1017.000	111.00	26.000
14	11:41: 0	0.850	1033.000	111.00	16.000
15	11:44: 0	0.900	1046.000	111.00	13.000
16	11:47: 0	0.950	1056.000	111.00	10.000
17	11:50: 0	1.000	1066.000	111.00	10.000
18	11:53: 0	1.050	1072.000	111.00	6.000
19	11:56: 0	1.100	1078.000	111.00	6.000
20	11:59: 0	1.150	1082.000	111.00	4.000
21	12: 2: 0	1.200	1086.000	111.00	4.000
22	12: 5: 0	1.250	1089.000	111.00	3.000
23	12: 8: 0	1.300	1091.000	111.00	2.000
24	12: 9: 0	1.317	87.000	111.00	-1004.000
25	12:12:59	1.383	87.000	111.00	0.000
26	12:18: 0	1.467	87.000	111.00	0.000
27	12:23: 0	1.550	88.000	111.00	1.000
28	12:27:59	1.633	90.000	111.00	2.000
29	12:33: 0	1.717	92.000	111.00	2.000
30	12:38: 0	1.800	94.000	111.00	2.000
31	12:41: 0	1.850	585.000	111.00	491.000
32	12:44: 0	1.900	795.000	111.00	210.000
33	12:47: 0	1.950	896.000	111.00	101.000
34	12:50: 0	2.000	950.000	111.00	54.000
35	12:53: 0	2.050	981.000	111.00	31.000
36	12:56: 0	2.100	1003.000	111.00	22.000
37	12:58:59	2.150	1019.000	111.00	16.000
38	13: 2: 0	2.200	1033.000	111.00	14.000
39	13: 5: 0	2.250	1044.000	111.00	11.000
40	13: 8: 0	2.300	1052.000	111.00	8.000
41	13:11: 0	2.350	1058.000	111.00	6.000
42	13:14: 0	2.400	1065.000	111.00	7.000
43	13:16:59	2.450	1070.000	111.00	5.000
44	13:20: 0	2.500	1075.000	111.00	5.000
45	13:23: 0	2.550	1078.000	111.00	3.000
46	13:26: 0	2.600	1081.000	111.00	3.000

WESTERN TESTING CO. INC.

R4 11127

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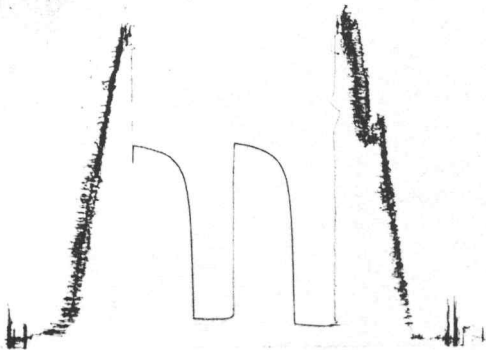


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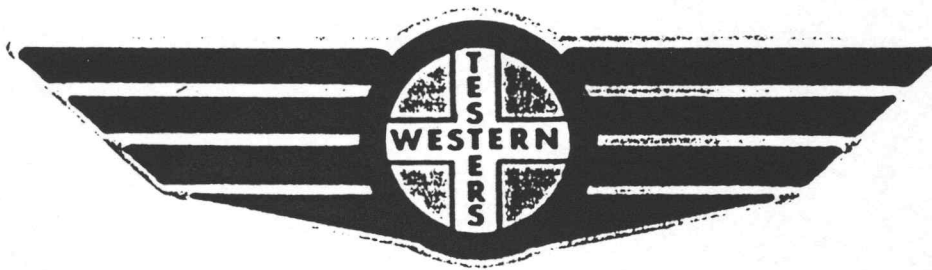
TK4 11127

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OST#1
13268



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY PENDLETON / H&C / RAMCO

LEASE & WELL NO. REDETZKE #2

SEC. 3 TWP. 17 SRGE. 13W TEST NO. 2 DATE 11-28-87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	11-28-87	TICKET	:	11128	
CUSTOMER	:	PENDLETON / H&C / RAMCO	LEASE	:	REDETZKE	
WELL	:	#2	TEST:	:	2	
ELEVATION	:	NA	GEOLOGIST	:	D. DAVIS	
SECTION	:	3	FORMATION	:	ARBUCKLE	
RANGE	:	13W	TOWNSHIP	:	17S	
GAUGE SN#	:	10270	STATE	:	KANSAS	
		COUNTY :	BARTON	CLOCK	:	12
		RANGE :	4150			

INTERVAL FROM	:	3440	TO	:	3456	TOTAL DEPTH	:	3456
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3435	SIZE	:	6.63			
PACKER DEPTH	:	3440	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	ALLEN RIG #1			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	46
WEIGHT	:	9.4	WATER LOSS (CC)	:	8.
CHLORIDES (PPM)	:	8000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	421
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3415	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	25	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	16	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	:	INITIAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 1 MINUTE.
BLOW COMMENT #2	:	FINAL FLOW-STRONG BLOW THROUGHOUT.
BLOW COMMENT #3	:	
BLOW COMMENT #4	:	

RECOVERED : 90 FT OF: MUDDY WATER
RECOVERED : 2200 FT OF: WATER

CHLORIDES: 14000 PPM

Total Barrels Fluid = 32.12
Total Fluid Prod Rate = 770.89 BFPD
Indicated Wtr Rate = 755.74 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 9:10 PM
WELL TEMPERATURE : 113

TIME STARTED OFF BOTTOM : 11:40 PM

INITIAL HYDROSTATIC PRESSURE

(A) 1802

INITIAL FLOW PERIOD MIN: 30

(B) 175 PSI TO (C) : 709

INITIAL CLOSED IN PERIOD MIN: 45

(D) 1150

FINAL FLOW PERIOD MIN: 30

(E) 785 PSI TO (F) : 1002

FINAL CLOSED IN PERIOD MIN: 45

(G) 1151

FINAL HYDROSTATIC PRESSURE

(H) 1790

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : PENDLETON / H&C / RAMCO
RIG : BARTON-KANSAS
FIELD : REDETZKE
WELL : #2
DATE : 11-28-87
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : PENDLETON / H&C / RAMCO
WELL : #2
GAUGE # : 10270
DATE : 28/11/87

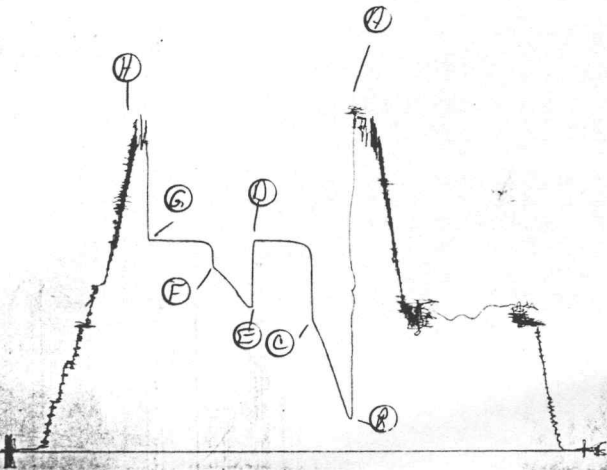
FIELD : REDETZKE ,
JOB # : 11128
DEPTH : 3456
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:10: 0	0.000	175.000	113.00	0.000
2	9:14:59	0.083	242.000	113.00	67.000
3	9:20: 0	0.167	345.000	113.00	103.000
4	9:25: 0	0.250	446.000	113.00	101.000
5	9:29:59	0.333	545.000	113.00	99.000
6	9:35: 0	0.417	635.000	113.00	90.000
7	9:40: 0	0.500	709.000	113.00	74.000
8	9:43: 0	0.550	1089.000	113.00	380.000
9	9:46: 0	0.600	1119.000	113.00	30.000
10	9:49: 0	0.650	1130.000	113.00	11.000
11	9:52: 0	0.700	1136.000	113.00	6.000
12	9:55: 0	0.750	1141.000	113.00	5.000
13	9:58: 0	0.800	1144.000	113.00	3.000
14	10: 1: 0	0.850	1145.000	113.00	1.000
15	10: 4: 0	0.900	1146.000	113.00	1.000
16	10: 7: 0	0.950	1147.000	113.00	1.000
17	10:10: 0	1.000	1147.000	113.00	0.000
18	10:13: 0	1.050	1148.000	113.00	1.000
19	10:16: 0	1.100	1148.000	113.00	0.000
20	10:19: 0	1.150	1149.000	113.00	1.000
21	10:22: 0	1.200	1149.000	113.00	0.000
22	10:25: 0	1.250	1150.000	113.00	1.000
23	10:26: 0	1.267	785.000	113.00	-365.000
24	10:29:59	1.333	804.000	113.00	19.000
25	10:35: 0	1.417	851.000	113.00	47.000
26	10:40: 0	1.500	901.000	113.00	50.000
27	10:44:59	1.583	946.000	113.00	45.000
28	10:50: 0	1.667	977.000	113.00	31.000
29	10:55: 0	1.750	1002.000	113.00	25.000
30	10:58: 0	1.800	1127.000	113.00	125.000
31	11: 1: 0	1.850	1139.000	113.00	12.000
32	11: 4: 0	1.900	1144.000	113.00	5.000
33	11: 7: 0	1.950	1145.000	113.00	1.000
34	11:10: 0	2.000	1145.000	113.00	0.000
35	11:13: 0	2.050	1146.000	113.00	1.000
36	11:16: 0	2.100	1146.000	113.00	0.000
37	11:19: 0	2.150	1146.000	113.00	0.000
38	11:22: 0	2.200	1146.000	113.00	0.000
39	11:25: 0	2.250	1146.000	113.00	0.000
40	11:28: 0	2.300	1147.000	113.00	1.000
41	11:31: 0	2.350	1148.000	113.00	1.000
42	11:34: 0	2.400	1149.000	113.00	1.000
43	11:37: 0	2.450	1150.000	113.00	1.000
44	11:40: 0	2.500	1151.000	113.00	1.000

WESTERN TESTING CO. INC.

TK4 11/28

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