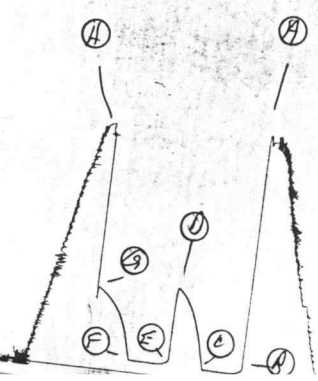


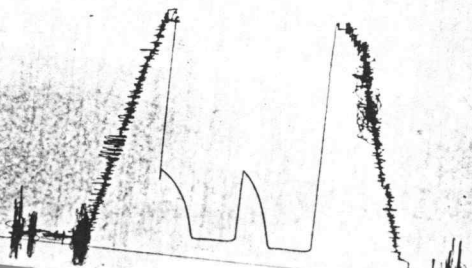
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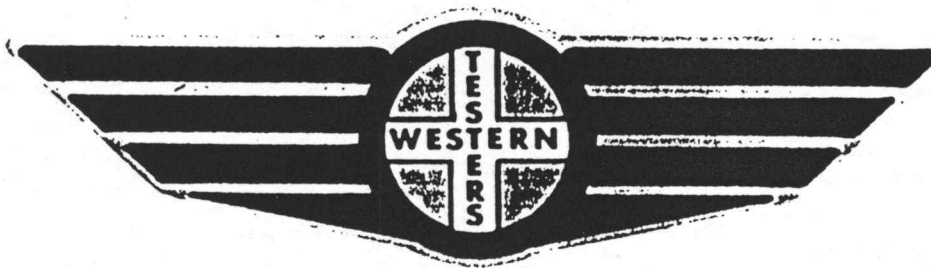


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 4-17-88 TICKET : 13698
CUSTOMER : RAINS & WILLIAMSON OIL CO. INC. LEASE : SCULLY
WELL : A-1 TEST: 1 GEOLOGIST : D. CALLEWAERT
ELEVATION : 1432 KB FORMATION : MISSISSIPPI
SECTION : 12 TOWNSHIP : 18S
RANGE : 1E COUNTY : MARION STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 2620 TO : 2681 TOTAL DEPTH : 2681
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2615 SIZE : 6.63
PACKER DEPTH : 2620 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : R&W RIG 3
MUD TYPE : CHEMCIAL VISCOSITY : 43
WEIGHT : 9.1 WATER LOSS (CC) : NC
CHLORIDES (PPM) : 2000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 150 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2450 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 61 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 1/2" BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW-VERY WEAK BLOW-DIED IN 5 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: MUD

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 1.13 BFPD
Indicated Wtr Rate = 0.11 BWPD

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

SET PACKER(S) : 4:45 AM

TIME STARTED OFF BOTTOM : 6:45 AM

WELL TEMPERATURE : 104

INITIAL HYDROSTATIC PRESSURE

(A) 1361

INITIAL FLOW PERIOD MIN: 30

(B) 56 PSI TO (C) : 56

INITIAL CLOSED IN PERIOD MIN: 27

(D) 491

FINAL FLOW PERIOD MIN: 30

(E) 66 PSI TO (F) : 66

FINAL CLOSED IN PERIOD MIN: 30

(G) 448

FINAL HYDROSTATIC PRESSURE

(H) 1339

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RAINS & WILLIAMSON OIL CO. INC.
RIG : MARION-KANSAS
FIELD : SCULLY
WELL : A-1
DATE : 4-17-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : RAINS & WILLIAMSON OIL CO. INC.

FIELD : SCULLY

WELL : A-1

JOB # : 13698

GAUGE # : 10270

DEPTH : 2681

DATE : 17/ 4/88

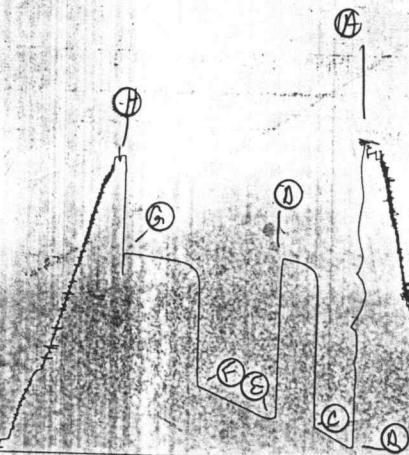
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:45: 0	0.000	56.000	104.00	0.000
2	4:49:59	0.083	56.000	104.00	0.000
3	4:55: 0	0.167	56.000	104.00	0.000
4	5: 0: 0	0.250	56.000	104.00	0.000
5	5: 4:59	0.333	56.000	104.00	0.000
6	5:10: 0	0.417	56.000	104.00	0.000
7	5:15: 0	0.500	56.000	104.00	0.000
8	5:18: 0	0.550	113.000	104.00	57.000
9	5:21: 0	0.600	210.000	104.00	97.000
10	5:24: 0	0.650	288.000	104.00	78.000
11	5:27: 0	0.700	342.000	104.00	54.000
12	5:30: 0	0.750	392.000	104.00	50.000
13	5:33: 0	0.800	431.000	104.00	39.000
14	5:36: 0	0.850	459.000	104.00	28.000
15	5:39: 0	0.900	481.000	104.00	22.000
16	5:42: 0	0.950	491.000	104.00	10.000
17	5:43: 0	0.967	66.000	104.00	-425.000
18	5:46:59	1.033	66.000	104.00	0.000
19	5:52: 0	1.117	66.000	104.00	0.000
20	5:57: 0	1.200	66.000	104.00	0.000
21	6: 1:59	1.283	66.000	104.00	0.000
22	6: 7: 0	1.367	66.000	104.00	0.000
23	6:12: 0	1.450	66.000	104.00	0.000
24	6:15: 0	1.500	139.000	104.00	73.000
25	6:18: 0	1.550	224.000	104.00	85.000
26	6:21: 0	1.600	281.000	104.00	57.000
27	6:24: 0	1.650	326.000	104.00	45.000
28	6:27: 0	1.700	357.000	104.00	31.000
29	6:30: 0	1.750	387.000	104.00	30.000
30	6:33: 0	1.800	409.000	104.00	22.000
31	6:36: 0	1.850	426.000	104.00	17.000
32	6:39: 0	1.900	440.000	104.00	14.000
33	6:42: 0	1.950	448.000	104.00	8.000

WESTERN TESTING CO. INC.

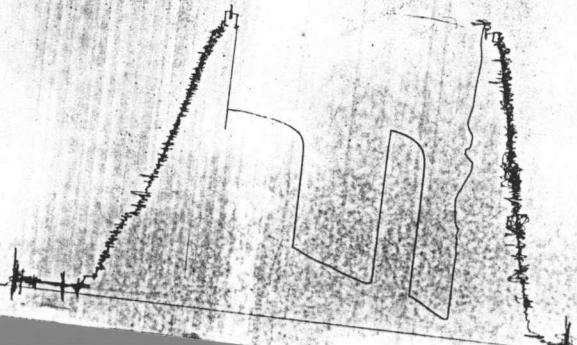
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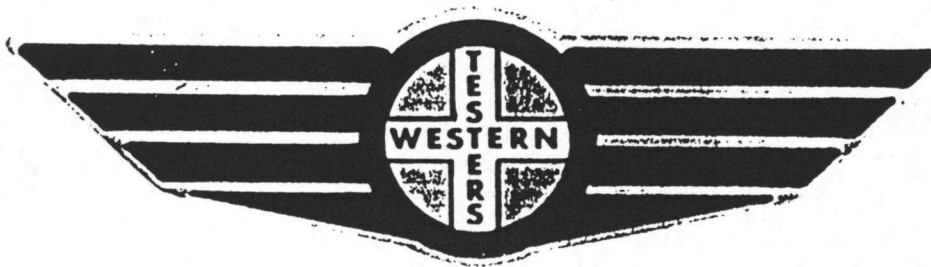
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	4-18-88	TICKET	:	13699
CUSTOMER	:	RAINS & WILLIAMSON OIL CO INC	LEASE	:	SCULLY
WELL	:	A-1	TEST:	:	2
ELEVATION	:	1432 KB	GEOLOGIST	:	D.CALLEWAERT
SECTION	:	12	FORMATION	:	SIMPSON SD
RANGE	:	1E	TOWNSHIP	:	18S
GAUGE SN#	:	10270	STATE	:	KANSAS
		COUNTY :	RANGE :		CLOCK :
			4150		12

INTERVAL FROM	:	3205	TO	:	3223	TOTAL DEPTH	:	3223
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3200	SIZE	:	6.63			
PACKER DEPTH	:	3205	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	R&W RIG 3			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	45
WEIGHT	:	9.8	WATER LOSS (CC)	:	10.4
CHLORIDES (PPM)	:	2000			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	150	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3035	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	18	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 BUILDING TO STRONG IN 15 MIN.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW BUILDING TO STRONG.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 870 FT OF: WATER

CHLORIDES: 7000 PPM

Total Barrels Fluid = 10.80
Total Fluid Prod Rate = 172.87 BFPD
Indicated Wtr Rate = 172.87 BWPD

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

SET PACKER(S) : 2:40 AM

TIME STARTED OFF BOTTOM : 5:40 AM

WELL TEMPERATURE : 118

INITIAL HYDROSTATIC PRESSURE

(A) 1691

INITIAL FLOW PERIOD MIN: 30

(B) 68 PSI TO (C) : 172

INITIAL CLOSED IN PERIOD MIN: 27

(D) 1093

FINAL FLOW PERIOD MIN: 60

(E) 212 PSI TO (F) : 378

FINAL CLOSED IN PERIOD MIN: 60

(G) 1102

FINAL HYDROSTATIC PRESSURE

(H) 1646

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RAINS & WILLIAMSON OIL CO INC
RIG : MARION-KANSAS
FIELD : SCULLY
WELL : A-1
DATE : 4-18-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : RAINS & WILLIAMSON OIL CO INC
 WELL : A-1
 GAUGE # : 10270
 DATE : 18/ 4/88

FIELD : SCULLY
 JOB # : 13699
 DEPTH : 3223
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:40: 0	0.000	68.000	118.00	0.000
2	2:44:59	0.083	77.000	118.00	9.000
3	2:50: 0	0.167	96.000	118.00	19.000
4	2:55: 0	0.250	116.000	118.00	20.000
5	2:59:59	0.333	138.000	118.00	22.000
6	3: 5: 0	0.417	157.000	118.00	19.000
7	3:10: 0	0.500	172.000	118.00	15.000
8	3:13: 0	0.550	1012.000	118.00	840.000
9	3:16: 0	0.600	1039.000	118.00	27.000
10	3:19: 0	0.650	1057.000	118.00	18.000
11	3:22: 0	0.700	1068.000	118.00	11.000
12	3:25: 0	0.750	1075.000	118.00	7.000
13	3:28: 0	0.800	1080.000	118.00	5.000
14	3:31: 0	0.850	1085.000	118.00	5.000
15	3:34: 0	0.900	1089.000	118.00	4.000
16	3:37: 0	0.950	1093.000	118.00	4.000
17	3:38: 0	0.967	212.000	118.00	-881.000
18	3:41:59	1.033	213.000	118.00	1.000
19	3:47: 0	1.117	220.000	118.00	7.000
20	3:52: 0	1.200	237.000	118.00	17.000
21	3:56:59	1.283	257.000	118.00	20.000
22	4: 2: 0	1.367	274.000	118.00	17.000
23	4: 7: 0	1.450	290.000	118.00	16.000
24	4:11:59	1.533	308.000	118.00	18.000
25	4:17: 0	1.617	322.000	118.00	14.000
26	4:22: 0	1.700	341.000	118.00	19.000
27	4:26:59	1.783	357.000	118.00	16.000
28	4:32: 0	1.867	373.000	118.00	16.000
29	4:37: 0	1.950	378.000	118.00	5.000
30	4:40: 0	2.000	1000.000	118.00	622.000
31	4:43: 0	2.050	1032.000	118.00	32.000
32	4:46: 0	2.100	1047.000	118.00	15.000
33	4:49: 0	2.150	1055.000	118.00	8.000
34	4:52: 0	2.200	1064.000	118.00	9.000
35	4:55: 0	2.250	1070.000	118.00	6.000
36	4:58: 0	2.300	1073.000	118.00	3.000
37	5: 1: 0	2.350	1076.000	118.00	3.000
38	5: 4: 0	2.400	1080.000	118.00	4.000
39	5: 7: 0	2.450	1082.000	118.00	2.000
40	5:10: 0	2.500	1084.000	118.00	2.000
41	5:13: 0	2.550	1086.000	118.00	2.000
42	5:16: 0	2.600	1088.000	118.00	2.000
43	5:19: 0	2.650	1090.000	118.00	2.000
44	5:22: 0	2.700	1092.000	118.00	2.000
45	5:25: 0	2.750	1094.000	118.00	2.000
46	5:28: 0	2.800	1096.000	118.00	2.000
47	5:31: 0	2.850	1098.000	118.00	2.000
48	5:34: 0	2.900	1100.000	118.00	2.000
49	5:37: 0	2.950	1102.000	118.00	2.000

WESTERN TESTING CO. INC.