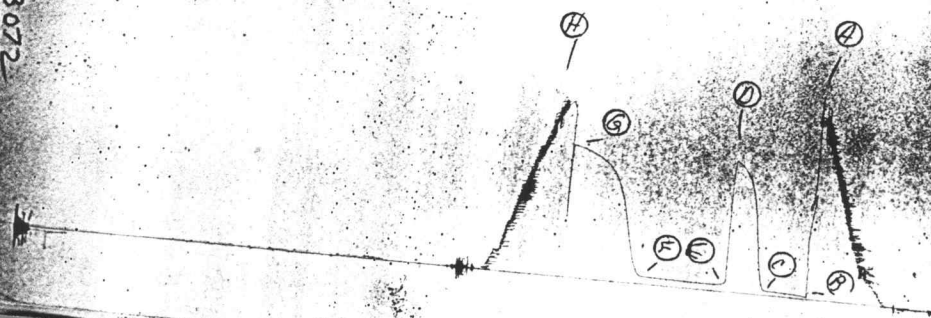


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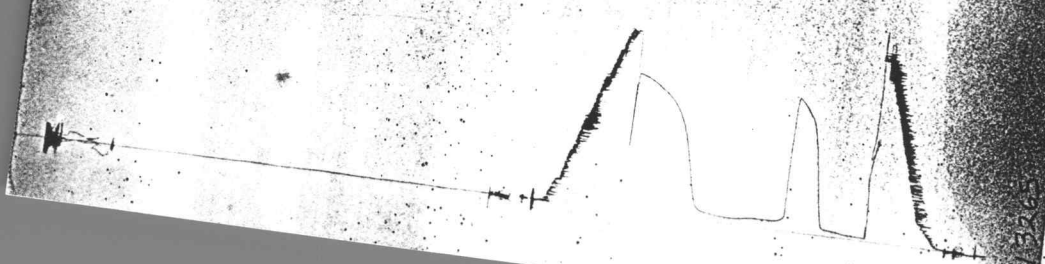
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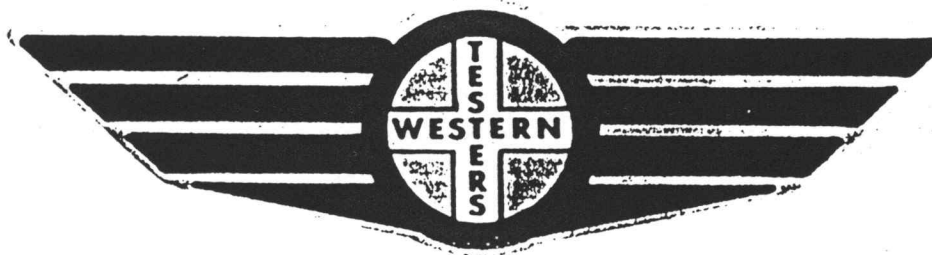
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CROSS WIND PETROLEUM LEASE & WELL NO. SWEANEY #1 SEC. 23 TWP. 33 SRGE. 8E TEST NO. 1 DATE 11-3-87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	11-3-87	TICKET	:	13072	
CUSTOMER	:	CROSS WIND PETROLEUM	LEASE	:	SWEANEY	
WELL	:	#1	TEST:	:	1	
ELEVATION	:	966 KB	GEOLOGIST	:	T. WILLIAMS	
SECTION	:	23	FORMATION	:	PAWNEE	
RANGE	:	8E	TOWNSHIP	:	33S	
GAUGE SN#	:	10979	STATE	:	KANSAS	
		COUNTY :	CHAUTAUQUA		CLOCK :	12
		RANGE :	4100			

INTERVAL FROM	:	1963	TO	:	1985	TOTAL DEPTH	:	1985
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	1963	SIZE	:	6.63			
PACKER DEPTH	:	1958	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	EDCO RIG #2			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	43
WEIGHT	:	9.3	WATER LOSS (CC)	:	10.
CHLORIDES (PPM)	:	1000			
JARS-MAKE	:	-	SERIAL NUMBER	:	-
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	245	FT	I.D. inch	:	2.25
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	1696	FT	I.D. inch	:	2.70
TEST TOOL LENGTH	:	22	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	22	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	3.5 IF

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

RECOVERED : 45 FT OF: MUDDY SALT WATER
.9 RES. @ 70 DEG.F.

CHLORIDES: 32000 PPM

Total Barrels Fluid = 0.22
Total Fluid Prod Rate = 3.54 BFPD
Indicated Wtr Rate = 1.81 BWPD

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

SET PACKER(S) : 1:30 PM

TIME STARTED OFF BOTTOM : 4:30 PM

WELL TEMPERATURE : 96

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 60

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 999

(B) 17 PSI TO (C) : 29

(D) 729

(E) 41 PSI TO (F) : 45

(G) 740

(H) 965

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : CROSS WIND PETROLEUM
RIG : CHAUTAUQUA-KANSAS
FIELD : SWEANEY
WELL : #1
DATE : 11-3-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

COMPANY : CROSS WIND PETROLEUM
WELL : #1
GAUGE # : 10979
DATE : 3/11/87

FIELD : SWEANEY.
JOB # : 13072
DEPTH : 1985
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
1	1:30: 0	0.000	17.000	96.00	0.000
2	1:34:59	0.083	21.000	96.00	4.000
3	1:40: 0	0.167	24.000	96.00	3.000
4	1:45: 0	0.250	26.000	96.00	2.000
5	1:49:59	0.333	26.000	96.00	0.000
6	1:55: 0	0.417	27.000	96.00	1.000
7	2: 0: 0	0.500	29.000	96.00	2.000
8	2: 3: 0	0.550	35.000	96.00	6.000
9	2: 6: 0	0.600	103.000	96.00	68.000
10	2: 9: 0	0.650	252.000	96.00	149.000
11	2:12: 0	0.700	404.000	96.00	152.000
12	2:15: 0	0.750	542.000	96.00	138.000
13	2:18: 0	0.800	611.000	96.00	69.000
14	2:21: 0	0.850	658.000	96.00	47.000
15	2:24: 0	0.900	688.000	96.00	30.000
16	2:27: 0	0.950	710.000	96.00	22.000
17	2:30: 0	1.000	729.000	96.00	19.000
18	2:31: 0	1.017	41.000	96.00	-688.000
19	2:34:59	1.083	41.000	96.00	0.000
20	2:40: 0	1.167	41.000	96.00	0.000
21	2:45: 0	1.250	41.000	96.00	0.000
22	2:49:59	1.333	41.000	96.00	0.000
23	2:55: 0	1.417	41.000	96.00	0.000
24	3: 0: 0	1.500	41.000	96.00	0.000
25	3: 4:59	1.583	41.000	96.00	0.000
26	3:10: 0	1.667	41.000	96.00	0.000
27	3:15: 0	1.750	42.000	96.00	1.000
28	3:19:59	1.833	43.000	96.00	1.000
29	3:25: 0	1.917	44.000	96.00	1.000
30	3:30: 0	2.000	45.000	96.00	1.000
31	3:33: 0	2.050	49.000	96.00	4.000
32	3:36: 0	2.100	89.000	96.00	40.000
33	3:39: 0	2.150	150.000	96.00	61.000
34	3:42: 0	2.200	255.000	96.00	105.000
35	3:45: 0	2.250	363.000	96.00	108.000
36	3:48: 0	2.300	449.000	96.00	86.000
37	3:51: 0	2.350	523.000	96.00	74.000
38	3:54: 0	2.400	574.000	96.00	51.000
39	3:57: 0	2.450	610.000	96.00	36.000
40	4: 0: 0	2.500	637.000	96.00	27.000
41	4: 3: 0	2.550	659.000	96.00	22.000
42	4: 6: 0	2.600	674.000	95.00	15.000
43	4: 9: 0	2.650	687.000	96.00	13.000
44	4:12: 0	2.700	697.000	96.00	10.000
45	4:15: 0	2.750	707.000	96.00	10.000
46	4:18: 0	2.800	716.000	96.00	9.000
47	4:21: 0	2.850	723.000	96.00	7.000
48	4:24: 0	2.900	730.000	96.00	7.000
49	4:27: 0	2.950	734.000	96.00	4.000
50	4:30: 0	3.000	740.000	96.00	6.000

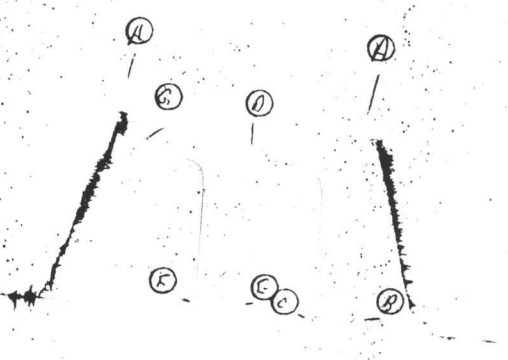
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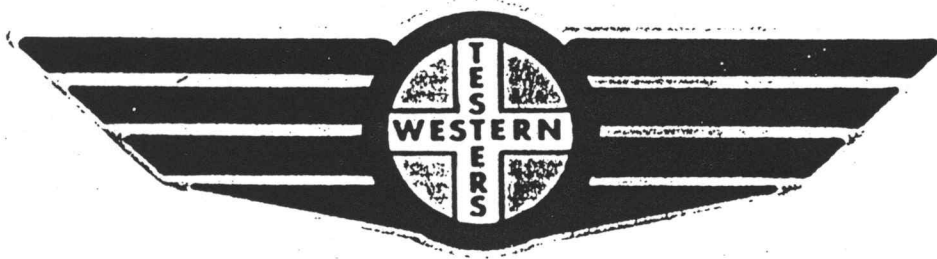
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CROSS WIND PETROLEUM

LEASE & WELL NO. SWEANEY #1

SEC. 23 TWP. 33SRGE. 8E TEST NO. 2 DATE 11-4-87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 11-4-87	TICKET	: 13073
CUSTOMER	: CROSS WIND PETROLEUM	LEASE	: SWEANEY
WELL	: #1 TEST: 2	GEOLOGIST	: T. WILLIAMS
ELEVATION	: 966 KB	FORMATION	: CHEROKEE
SECTION	: 23	TOWNSHIP	: 33S
RANGE	: 8E	COUNTY	: CHAUTAUQUA
GAUGE SN#	: 10979	RANGE	: 4100
		STATE	: KANSAS
		CLOCK	: 12

INTERVAL FROM	: 2038	TO	: 2118	TOTAL DEPTH	: 2118
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 2038	SIZE	: 6.63		
PACKER DEPTH	: 2033	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: EDCO RIG #2		
MUD TYPE	: CHEMICAL	VISCOSITY	: 48
WEIGHT	: 9.3	WATER LOSS (CC)	: 10
CHLORIDES (PPM)	: 1000		
JARS-MAKE	: -	SERIAL NUMBER	: -
DID WELL FLOW ?	: -	REVERSED OUT ?	: -

DRILL COLLAR LENGTH	: 245 FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 1771 FT	I.D. inch	: 2.70
TEST TOOL LENGTH	: 22 FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 80 FT	ANCHOR SIZE	: 5.50
SURFACE CHOKE SIZE	: .75 IN	BOTTOM CHOKE SIZE	: .75
MAIN HOLE SIZE	: 7.875 IN	TOOL JOINT SIZE	: 3.5 IF

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

RECOVERED : 135 FT OF: DRILLING MUD
3.5 RES. @ 70 DEG.F.

CHLORIDES: 2200 PPM

Total Barrels Fluid = 0.66
Total Fluid Prod Rate = 15.93 BFPD
Indicated Wtr Rate = 1.59 BWPD

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

SET PACKER(S) : 9:30 AM

TIME STARTED OFF BOTTOM : 11:30 AM

WELL TEMPERATURE : 97

INITIAL HYDROSTATIC PRESSURE

(A) 1024

INITIAL FLOW PERIOD MIN: 30

(B) 39 PSI TO (C) : 58

INITIAL CLOSED IN PERIOD MIN: 60

(D) 881

FINAL FLOW PERIOD MIN: 30

(E) 73 PSI TO (F) : 83

FINAL CLOSED IN PERIOD MIN: 60

(G) 876

FINAL HYDROSTATIC PRESSURE

(H) 1011

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : CROSS WIND PETROLEUM
RIG : CHAUTAUQUA-KANSAS
FIELD : SWEANEY
WELL : #1
DATE : 11-4-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

COMPANY : CROSS WIND PETROLEUM
WELL : #1
GAUGE # : 10979
DATE : 4/11/87

FIELD : SWEANEY
JOB # : 13073
DEPTH : 2118
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:30: 0	0.000	39.000	97.00	0.000
2	9:34:59	0.083	39.000	97.00	0.000
3	9:40: 0	0.167	40.000	97.00	1.000
4	9:45: 0	0.250	42.000	97.00	2.000
5	9:49:59	0.333	47.000	97.00	5.000
6	9:55: 0	0.417	52.000	97.00	5.000
7	10: 0: 0	0.500	58.000	97.00	6.000
8	10: 3: 0	0.550	660.000	97.00	602.000
9	10: 6: 0	0.600	776.000	97.00	116.000
10	10: 9: 0	0.650	819.000	97.00	43.000
11	10:12: 0	0.700	836.000	97.00	17.000
12	10:15: 0	0.750	847.000	97.00	11.000
13	10:18: 0	0.800	856.000	97.00	9.000
14	10:21: 0	0.850	862.000	97.00	6.000
15	10:24: 0	0.900	866.000	97.00	4.000
16	10:27: 0	0.950	871.000	97.00	5.000
17	10:30: 0	1.000	872.000	97.00	1.000
18	10:33: 0	1.050	873.000	97.00	1.000
19	10:36: 0	1.100	876.000	97.00	3.000
20	10:39: 0	1.150	879.000	97.00	3.000
21	10:42: 0	1.200	881.000	97.00	2.000
22	10:45: 0	1.250	881.000	97.00	0.000
23	10:48: 0	1.300	881.000	97.00	0.000
24	10:51: 0	1.350	881.000	97.00	0.000
25	10:54: 0	1.400	881.000	97.00	0.000
26	10:57: 0	1.450	881.000	97.00	0.000
27	11: 0: 0	1.500	881.000	97.00	0.000
28	11: 1: 0	1.517	73.000	97.00	-808.000
29	11: 4:59	1.583	73.000	97.00	0.000
30	11:10: 0	1.667	73.000	97.00	0.000
31	11:15: 0	1.750	73.000	97.00	0.000
32	11:19:59	1.833	75.000	97.00	2.000
33	11:25: 0	1.917	78.000	97.00	3.000
34	11:30: 0	2.000	83.000	97.00	5.000
35	11:33: 0	2.050	350.000	97.00	267.000
36	11:36: 0	2.100	776.000	97.00	426.000
37	11:39: 0	2.150	817.000	97.00	41.000
38	11:42: 0	2.200	830.000	97.00	13.000
39	11:45: 0	2.250	839.000	97.00	9.000
40	11:48: 0	2.300	845.000	97.00	6.000
41	11:51: 0	2.350	849.000	97.00	4.000
42	11:54: 0	2.400	855.000	97.00	6.000
43	11:57: 0	2.450	860.000	97.00	5.000
44	12: 0: 0	2.500	864.000	97.00	4.000
45	12: 3: 0	2.550	866.000	97.00	2.000
46	12: 6: 0	2.600	868.000	97.00	2.000
47	12: 9: 0	2.650	870.000	97.00	2.000
48	12:12: 0	2.700	871.000	97.00	1.000
49	12:15: 0	2.750	871.000	97.00	0.000
50	12:18: 0	2.800	872.000	97.00	1.000
51	12:21: 0	2.850	873.000	97.00	1.000
52	12:24: 0	2.900	874.000	97.00	1.000

COMPANY : CROSS WIND PETROLEUM
WELL : #1
GAUGE # : 10979
DATE : 4/11/87

FIELD : SWEANEY
JOB # : 13073
DEPTH : 2118
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
53	12:27: 0	2.950	875.000	97.00	1.000
54	12:30: 0	3.000	876.000	97.00	1.000

WESTERN TESTING CO. INC.