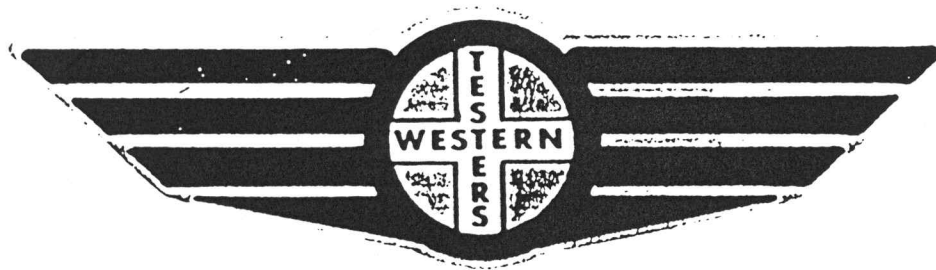


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RAINS & WILLIAMSON OIL CO INC. LEASE & WELL NO. SUSIE DUNCAN #2 SEC. 7 TWP. 30W RGE. 2W TEST NO. 1 DATE 8/16/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-16-87 TICKET : 13037
CUSTOMER : RAINS & WILLIAMSON OIL CO INC LEASE : SUSIE DUNCAN
WELL : #2 TEST: 1 GEOLOGIST : D. CALLEWAERT
ELEVATION : 1350 KB FORMATION : KANSAS CITY
SECTION : 7 TOWNSHIP : 30S
RANGE : 2W COUNTY : SUMNER STATE : KANSAS
GAUGE SN# : 13762 RANGE : 3925 CLOCK : 12

INTERVAL FROM : 3082 TO : 3099 TOTAL DEPTH : 3099
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3077 SIZE : 6.63
PACKER DEPTH : 3082 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.1 WATER LOSS (CC) : 14.0
CHLORIDES (PPM) : 12000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 242 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2819 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 17 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-DIED IN 15 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW-FLUSHED TOOL-GOT SURGE-
REMAINS DEAD.

BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: MUD

Total Barrels Fluid = 0.15
Total Fluid Prod Rate = 3.03 BFPD
Indicated Wtr Rate = 0.30 BWPD

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

SET PACKER(S) : 1:10 PM

TIME STARTED OFF BOTTOM : 3:10 PM

WELL TEMPERATURE : 103

INITIAL HYDROSTATIC PRESSURE

(A) 1501

INITIAL FLOW PERIOD MIN: 35

(B) 53 PSI TO (C) : 53

INITIAL CLOSED IN PERIOD MIN: 27

(D) 624

FINAL FLOW PERIOD MIN: 35

(E) 86 PSI TO (F) : 62

FINAL CLOSED IN PERIOD MIN: 27

(G) 574

FINAL HYDROSTATIC PRESSURE

(H) 1464

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : RAINS & WILLIAMSON OIL CO INC
RIG : SUMNER-KANSAS
FIELD : SUSIE DUNCAN
WELL : #2
DATE : 8-16-87
GAUGE NO : 13762

OPERATIONAL COMMENTS

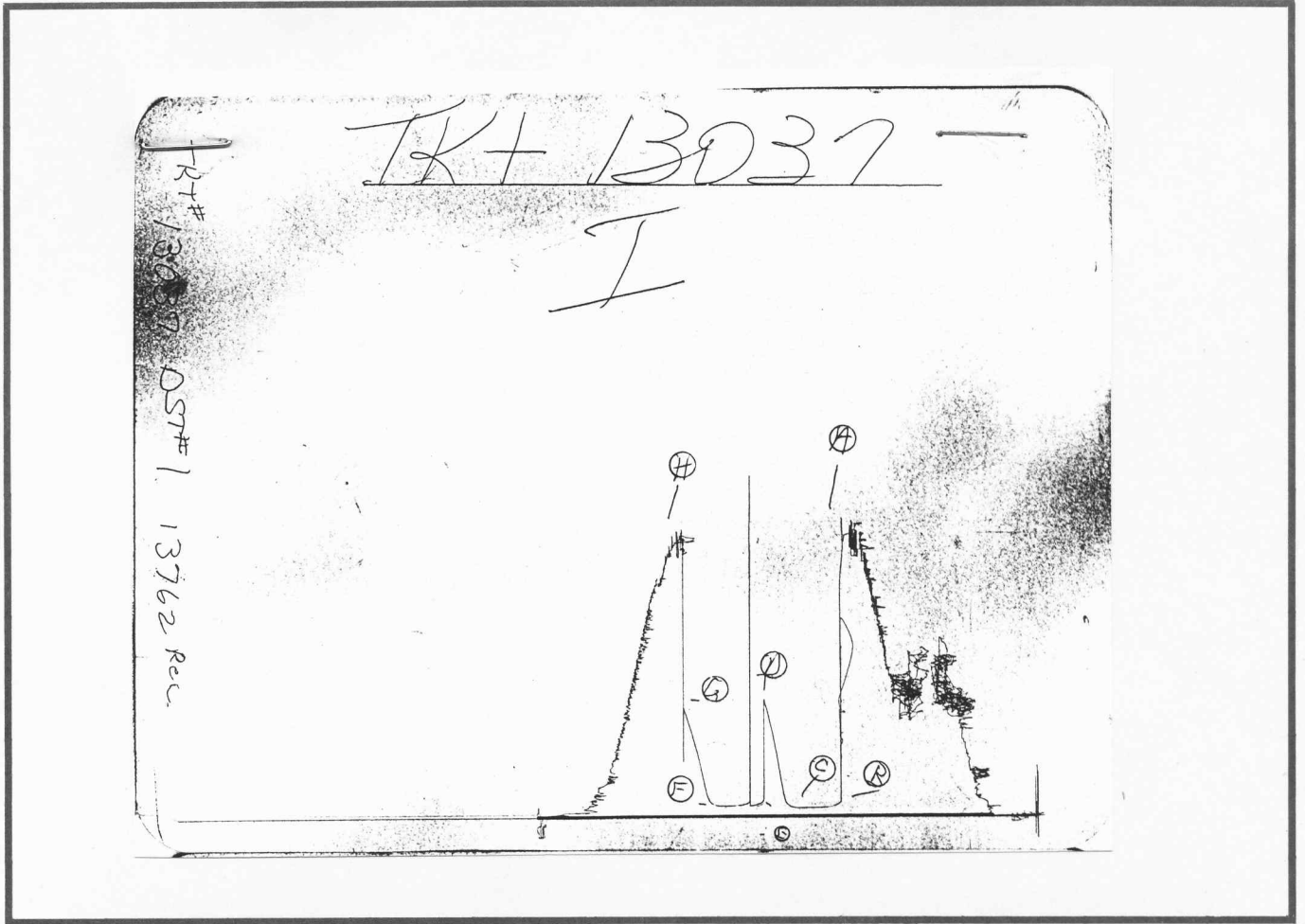
FLUSHED TOOL FINAL FLOW.

COMPANY : RAINS & WILLIAMSON OIL CO INC
WELL : #2
GAUGE # : 13762
DATE : 16/ 8/87

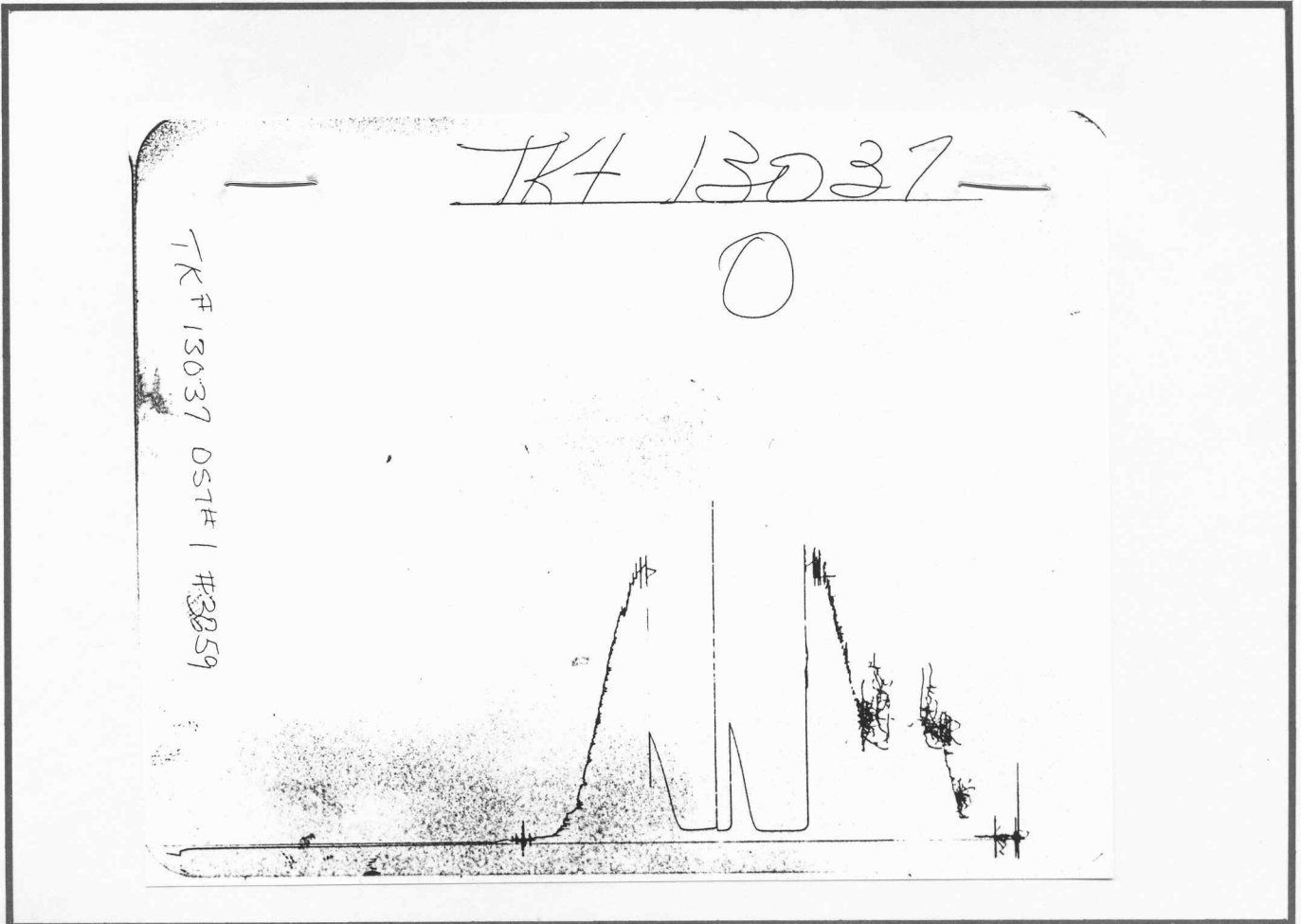
FIELD : SUSIE DUNCAN
JOB # : 13037
DEPTH : 3099
TEST : FLUSHED TOOL FINAL FLOW.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:10:0	0.000	53.000	103.00	0.000
2	1:14:59	0.083	53.000	103.00	0.000
3	1:20:0	0.167	53.000	103.00	0.000
4	1:25:0	0.250	53.000	103.00	0.000
5	1:29:59	0.333	53.000	103.00	0.000
6	1:35:0	0.417	53.000	103.00	0.000
7	1:40:0	0.500	53.000	103.00	0.000
8	1:44:59	0.583	53.000	103.00	0.000
9	1:47:59	0.633	60.000	103.00	7.000
10	1:50:59	0.683	73.000	103.00	13.000
11	1:53:59	0.733	119.000	103.00	46.000
12	1:56:59	0.783	231.000	103.00	112.000
13	1:59:59	0.833	338.000	103.00	107.000
14	2: 2:59	0.883	420.000	103.00	82.000
15	2: 5:59	0.933	514.000	103.00	94.000
16	2: 8:59	0.983	592.000	103.00	78.000
17	2:11:59	1.033	624.000	103.00	32.000
18	2:13:0	1.050	86.000	103.00	-538.000
19	2:16:59	1.117	70.000	103.00	-16.000
20	2:21:59	1.200	62.000	103.00	-8.000
21	2:26:59	1.283	68.000	103.00	6.000
22	2:31:59	1.367	64.000	103.00	-4.000
23	2:36:59	1.450	62.000	103.00	-2.000
24	2:41:59	1.533	62.000	103.00	0.000
25	2:46:59	1.617	62.000	103.00	0.000
26	2:49:59	1.667	72.000	103.00	10.000
27	2:52:59	1.717	90.000	103.00	18.000
28	2:55:59	1.767	150.000	103.00	60.000
29	2:58:59	1.817	227.000	103.00	77.000
30	3: 1:59	1.867	319.000	103.00	92.000
31	3: 4:59	1.917	385.000	103.00	66.000
32	3: 7:59	1.967	449.000	103.00	64.000
33	3:10:59	2.017	508.000	103.00	59.000
34	3:13:59	2.067	574.000	103.00	66.000

WESTERN TESTING CO. INC.

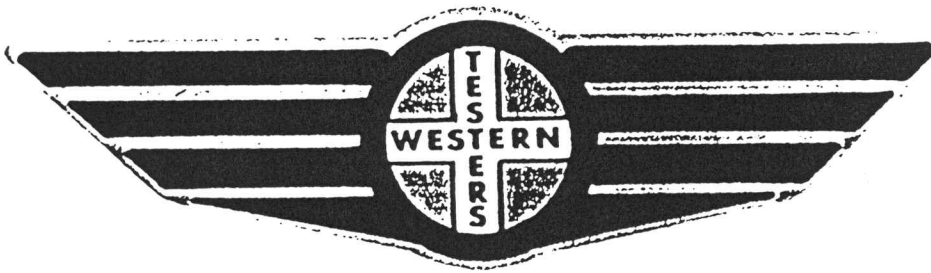


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

RAINS & WILLIAMSON OIL CO INC
LEASE & WELL NO.

SUSIE DUNCAN #2

SEC. 7

TWP. 30W

RGE. 2W

TEST NO. 2

DATE

8/11/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-17-87 TICKET : 13038
CUSTOMER : RAINS & WILLIAMSON OIL CO INC LEASE : SUSIE DUNCAN
WELL : #2 TEST: 2 GEOLOGIST : D. CALLEWAERT
ELEVATION : 1350 KB FORMATION : KANSAS CITY
SECTION : 7 TOWNSHIP : 30S
RANGE : 2W COUNTY : SUMNER STATE : KANSAS
GAUGE SN# : 13762 RANGE : 3925 CLOCK : 12

INTERVAL FROM : 3192 TO : 3210 TOTAL DEPTH : 3210
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3187 SIZE : 6.63
PACKER DEPTH : 3192 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.2 WATER LOSS (CC) : 16.0
CHLORIDES (PPM) : 16000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 242 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2929 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 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-STRONG BLOW OFF BOTTOM OF BUCKET.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW OFF BOTTOM OF BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: OIL CUT MUD
 RECOVERED : 60 FT OF: GASSY MUDDY OIL
 30% GAS-30% OIL-5% WATER-35% MUD
 RECOVERED : 60 FT OF: GASSY MUDDY OIL
 55% GAS-30% OIL-15% MUD
 RECOVERED : 60 FT OF: GASSY MUDDY OIL
 35% GAS-45% OIL-15% WATER-5% MUD

CHLORIDES: 65000 PPM

Total Barrels Fluid = 0.91
 Total Fluid Prod Rate = 14.56 BFPD
 Indicated Oil Rate = 5.04 BOPD
 Indicated Wtr Rate = 1.18 BWPD
 Corrected Oil Rate = 9.14 BOPD
 Corrected Wtr Rate = 2.14 BWPD

REMARK 1 :
 REMARK 2 : RECOVERED 900 FEET OF GAS ABOVE FLUID.
 REMARK 3 :
 REMARK 4 :

SET PACKER(S) : 7:20 AM TIME STARTED OFF BOTTOM : 10:20 AM
 WELL TEMPERATURE : 105
 INITIAL HYDROSTATIC PRESSURE (A) 1517
 INITIAL FLOW PERIOD MIN: 30 (B) 51 PSI TO (C) : 56
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 786
 FINAL FLOW PERIOD MIN: 60 (E) 87 PSI TO (F) : 94
 FINAL CLOSED IN PERIOD MIN: 57 (G) 829
 FINAL HYDROSTATIC PRESSURE (H) 1505

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : RAINS & WILLIAMSON OIL CO INC
RIG : SUMNER-KANSAS
FIELD : SUSIE DUNCAN
WELL : #2
DATE : 8-17-87
GAUGE NO : 13762

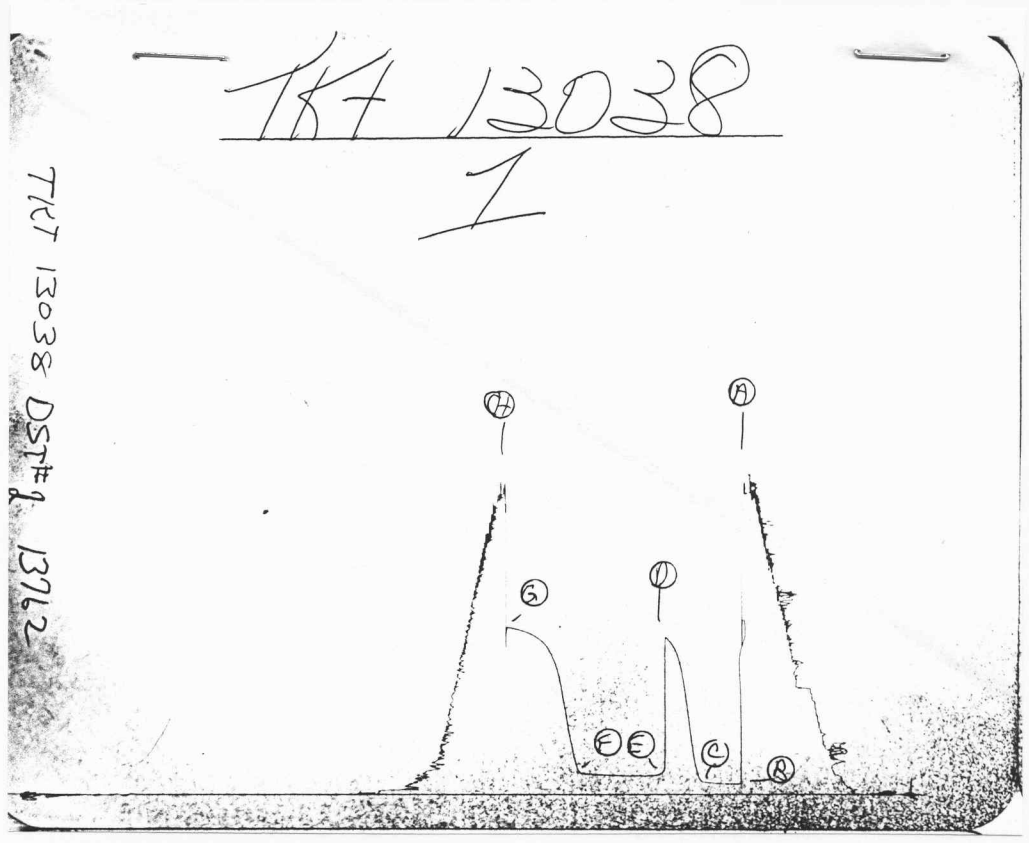
OPERATIONAL COMMENTS

RECOVERED 900 FEET OF GAS ABOVE FLUID.

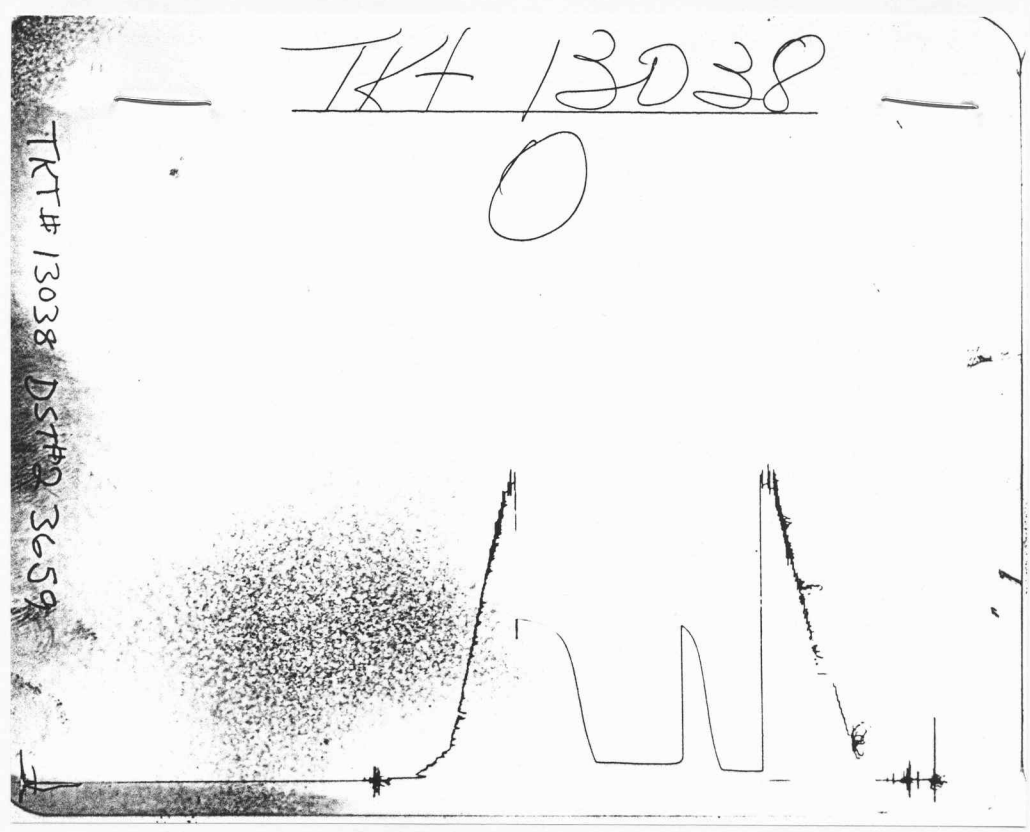
COMPANY : RAINS & WILLIAMSON OIL CO INC
 WELL : #2
 GAUGE # : 13762
 DATE : 17/ 8/87

FIELD : SUSIE DUNCAN
 JOB # : 13038
 DEPTH : 3210
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:20: 0	0.000	51.000	105.00	0.000
2	7:24:59	0.083	51.000	105.00	0.000
3	7:30: 0	0.167	51.000	105.00	0.000
4	7:35: 0	0.250	51.000	105.00	0.000
5	7:39:59	0.333	52.000	105.00	1.000
6	7:45: 0	0.417	55.000	105.00	3.000
7	7:50: 0	0.500	56.000	105.00	1.000
8	7:53: 0	0.550	107.000	105.00	51.000
9	7:56: 0	0.600	204.000	105.00	97.000
10	7:59: 0	0.650	344.000	105.00	140.000
11	8: 2: 0	0.700	480.000	105.00	136.000
12	8: 5: 0	0.750	595.000	105.00	115.000
13	8: 8: 0	0.800	671.000	105.00	76.000
14	8:11: 0	0.850	719.000	105.00	48.000
15	8:14: 0	0.900	751.000	105.00	32.000
16	8:17: 0	0.950	771.000	105.00	20.000
17	8:20: 0	1.000	786.000	105.00	15.000
18	8:21: 0	1.017	87.000	105.00	-699.000
19	8:24:59	1.083	87.000	105.00	0.000
20	8:30: 0	1.167	87.000	105.00	0.000
21	8:35: 0	1.250	87.000	105.00	0.000
22	8:39:59	1.333	87.000	105.00	0.000
23	8:45: 0	1.417	87.000	105.00	0.000
24	8:50: 0	1.500	87.000	105.00	0.000
25	8:54:59	1.583	88.000	105.00	1.000
26	9: 0: 0	1.667	91.000	105.00	3.000
27	9: 5: 0	1.750	92.000	105.00	1.000
28	9: 9:59	1.833	92.000	105.00	0.000
29	9:15: 0	1.917	93.000	105.00	1.000
30	9:20: 0	2.000	94.000	105.00	1.000
31	9:23: 0	2.050	133.000	105.00	39.000
32	9:26: 0	2.100	198.000	105.00	65.000
33	9:29: 0	2.150	299.000	105.00	101.000
34	9:32: 0	2.200	405.000	105.00	106.000
35	9:35: 0	2.250	498.000	105.00	93.000
36	9:38: 0	2.300	583.000	105.00	85.000
37	9:41: 0	2.350	654.000	105.00	71.000
38	9:44: 0	2.400	698.000	105.00	44.000
39	9:47: 0	2.450	730.000	105.00	32.000
40	9:50: 0	2.500	752.000	105.00	22.000
41	9:53: 0	2.550	771.000	105.00	19.000
42	9:56: 0	2.600	784.000	105.00	13.000
43	9:59: 0	2.650	794.000	105.00	10.000
44	10: 2: 0	2.700	803.000	105.00	9.000
45	10: 5: 0	2.750	811.000	105.00	8.000
46	10: 8: 0	2.800	816.000	105.00	5.000
47	10:11: 0	2.850	821.000	105.00	5.000
48	10:14: 0	2.900	824.000	105.00	3.000
49	10:17: 0	2.950	829.000	105.00	5.000



Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY: RAINS & WILLIAMSON OIL CO INC. LEASE & WELL NO. SUSIE DUNCAN #2 SEC. 7 TWP. 30W RGE. 2W TEST NO. 3 DATE 8/17/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-17-87 TICKET : 13039
CUSTOMER : RAINS & WILLIAMSON OIL CO INC LEASE : SUSIE DUNCAN
WELL : #2 TEST: 3 GEOLOGIST : JERRY ???
ELEVATION : 1350 KB FORMATION : KANSAS CITY
SECTION : 7 TOWNSHIP : 30S
RANGE : 2W COUNTY : SUMNER STATE : KANSAS
GAUGE SN# : 3659 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3231 TO : 3240 TOTAL DEPTH : 3240
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3226 SIZE : 6.63
PACKER DEPTH : 3231 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.0 WATER LOSS (CC) : 10.0
CHLORIDES (PPM) : 11000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 242 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2968 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 9 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 OFF BOTTOM OF BUCKET IN
10 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW OFF BOTTOM OF BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: GASSY MUDDY OIL
40% GAS-30% OIL-28% MUD-2% WATER
RECOVERED : 60 FT OF: GASSY MUDDY OIL & WATER
33% GAS-37% OIL-22% MUD-8% WATER
RECOVERED : 60 FT OF: GASSY SALT WATER

CHLORIDES: 78000 PPM

Total Barrels Fluid = 0.66
Total Fluid Prod Rate = 10.06 BFPD
Indicated Oil Rate = 1.99 BOPD
Indicated Wtr Rate = 4.92 BWPD
Corrected Oil Rate = 12.56 BOPD
Corrected Wtr Rate = 31.04 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 520 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 9:50 PM
WELL TEMPERATURE : 112
INITIAL HYDROSTATIC PRESSURE (A) 1558
INITIAL FLOW PERIOD MIN: 35 (B) 34 PSI TO (C) : 48
INITIAL CLOSED IN PERIOD MIN: 33 (D) 983
FINAL FLOW PERIOD MIN: 60 (E) 85 PSI TO (F) : 96
FINAL CLOSED IN PERIOD MIN: 63 (G) 985
FINAL HYDROSTATIC PRESSURE (H) 1549

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : RAINS & WILLIAMSON OIL CO INC
RIG : SUMNER-KANSAS
FIELD : SUSIE DUNCAN
WELL : #2
DATE : 8-17-87
GAUGE NO : 3659

OPERATIONAL COMMENTS

RECOVERED 520 FEET OF GAS ABOVE FLUID.

COMPANY : RAINS & WILLIAMSON OIL CO INC
 WELL : #2
 GAUGE # : 3659
 DATE : 17/ 8/87

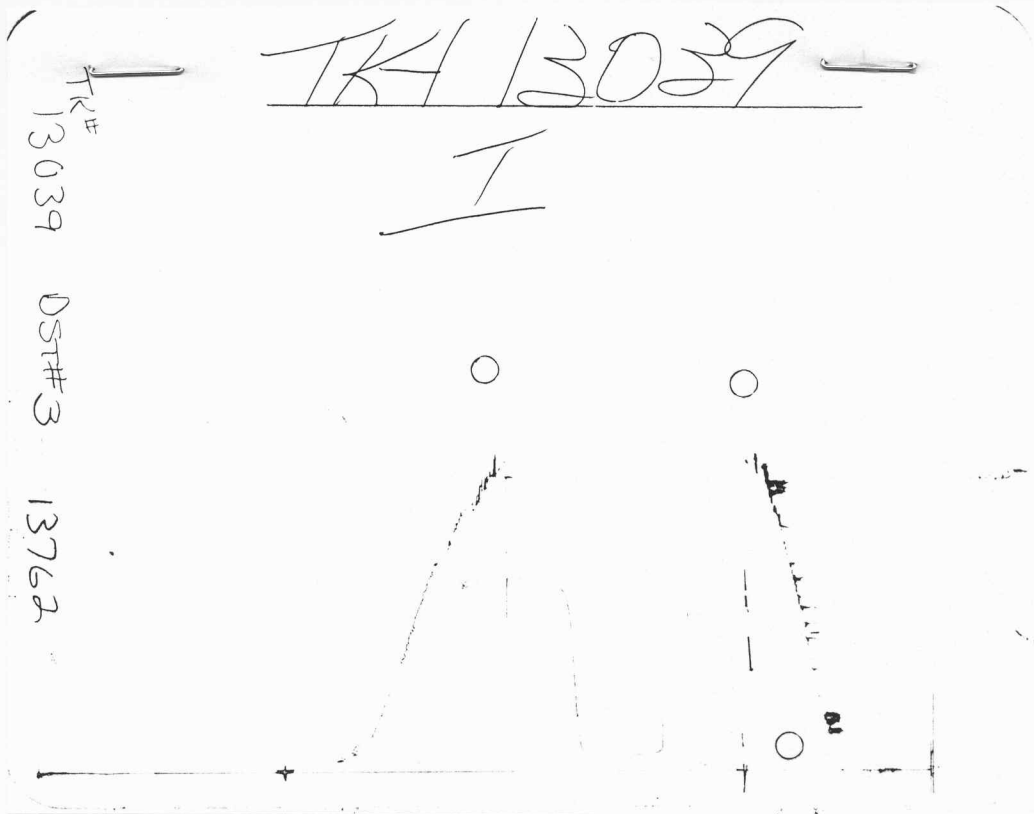
FIELD : SUSIE DUNCAN
 JOB # : 13039
 DEPTH : 3240
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:50:0	0.000	34.000	112.00	0.000
2	9:54:59	0.083	34.000	112.00	0.000
3	10:00:0	0.167	34.000	112.00	0.000
4	10:05:0	0.250	34.000	112.00	0.000
5	10:09:59	0.333	37.000	112.00	3.000
6	10:15:0	0.417	42.000	112.00	5.000
7	10:20:0	0.500	46.000	112.00	4.000
8	10:24:59	0.583	48.000	112.00	2.000
9	10:27:59	0.633	144.000	112.00	96.000
10	10:30:59	0.683	330.000	112.00	186.000
11	10:33:59	0.733	561.000	112.00	231.000
12	10:36:59	0.783	750.000	112.00	189.000
13	10:39:59	0.833	874.000	112.00	124.000
14	10:42:59	0.883	935.000	112.00	61.000
15	10:45:59	0.933	956.000	112.00	21.000
16	10:48:59	0.983	966.000	112.00	10.000
17	10:51:59	1.033	974.000	112.00	8.000
18	10:54:59	1.083	979.000	112.00	5.000
19	10:57:59	1.133	983.000	112.00	4.000
20	10:59:0	1.150	85.000	112.00	-898.000
21	11:02:59	1.217	85.000	112.00	0.000
22	11:08:0	1.300	85.000	112.00	0.000
23	11:12:59	1.383	85.000	112.00	0.000
24	11:17:59	1.467	85.000	112.00	0.000
25	11:23:0	1.550	86.000	112.00	1.000
26	11:27:59	1.633	88.000	112.00	2.000
27	11:32:59	1.717	91.000	112.00	3.000
28	11:38:0	1.800	93.000	112.00	2.000
29	11:42:59	1.883	94.000	112.00	1.000
30	11:47:59	1.967	95.000	112.00	1.000
31	11:53:0	2.050	96.000	112.00	1.000
32	11:57:59	2.133	96.000	112.00	0.000
33	12:00:59	2.183	187.000	112.00	91.000
34	12:03:59	2.233	313.000	112.00	126.000
35	12:06:59	2.283	500.000	112.00	187.000
36	12:09:59	2.333	676.000	112.00	176.000
37	12:12:59	2.383	808.000	112.00	132.000
38	12:15:59	2.433	895.000	112.00	87.000
39	12:18:59	2.483	927.000	112.00	32.000
40	12:21:59	2.533	946.000	112.00	19.000
41	12:24:59	2.583	956.000	112.00	10.000
42	12:27:59	2.633	963.000	112.00	7.000
43	12:30:59	2.683	967.000	112.00	4.000
44	12:33:59	2.733	971.000	112.00	4.000
45	12:36:59	2.783	975.000	112.00	4.000
46	12:39:59	2.833	977.000	112.00	2.000
47	12:42:59	2.883	979.000	112.00	2.000
48	12:45:59	2.933	980.000	112.00	1.000
49	12:48:59	2.983	981.000	112.00	1.000
50	12:51:59	3.033	982.000	112.00	1.000
51	12:54:59	3.083	983.000	112.00	1.000
52	12:57:59	3.133	984.000	112.00	1.000

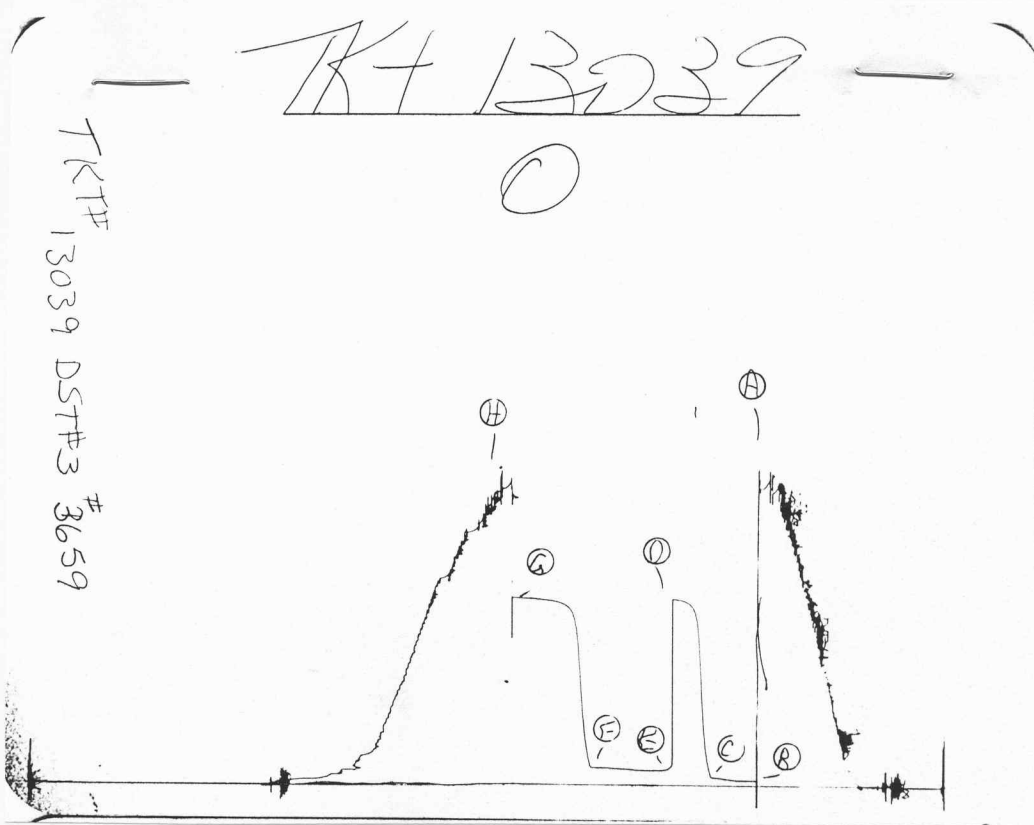
COMPANY : RAINS & WILLIAMSON OIL CO INC FIELD : SUSIE DUNCAN
WELL : #2 JOB # : 13039
GAUGE # : 3659 DEPTH : 3240
DATE : 17/ 8/87 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
53	13: 0:59	3.183	985.000	112.00	1.000

WESTERN TESTING CO. INC.

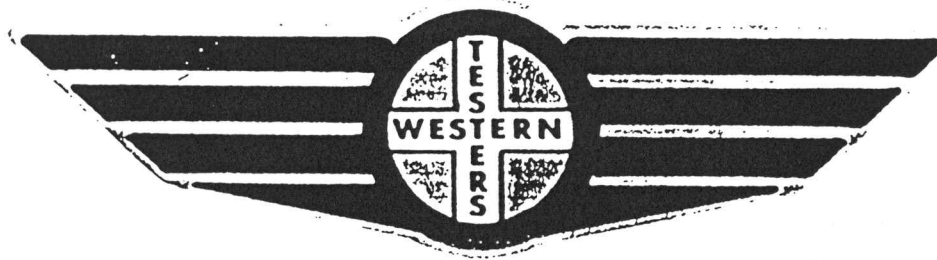


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RAINS & WILLIAMSON OIL CO INC. LEASE & WELL NO. SUSIE DUNCAN #2 SEC. 7 TWP. 30S RGE. 2W TEST NO. 4 DATE 8/20/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-20-87 TICKET : 13040
CUSTOMER : RAINS & WILLIAMSON OIL CO INC LEASE : SUSIE DUNCAN
WELL : #2 TEST: 4 GEOLOGIST : D. CALLEWAERT
ELEVATION : 1350 KB FORMATION : SIMPSON
SECTION : 7 TOWNSHIP : 30S
RANGE : 2W COUNTY : SUMNER STATE : KANSAS
GAUGE SN# : 13762 RANGE : 3925 CLOCK : 12

INTERVAL FROM : 4070 TO : 4098 TOTAL DEPTH : 4098
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4065 SIZE : 6.63
PACKER DEPTH : 4070 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : RAINS & WILLIAMSON RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 8.9 WATER LOSS (CC) : 10.0
CHLORIDES (PPM) : 4000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 242 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3807 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 28 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 A STRONG BLOW OFF
BOTTOM OF BUCKET IN 20 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-FAIR BLOW BUILDING TO A STRONG BLOW OFF
BOTTOM OF BUCKET IN 15 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : RAINS & WILLIAMSON OIL CO INC
RIG : SUMNER-KANSAS
FIELD : SUSIE DUNCAN
WELL : #2
DATE : 8-20-87
GAUGE NO : 13762

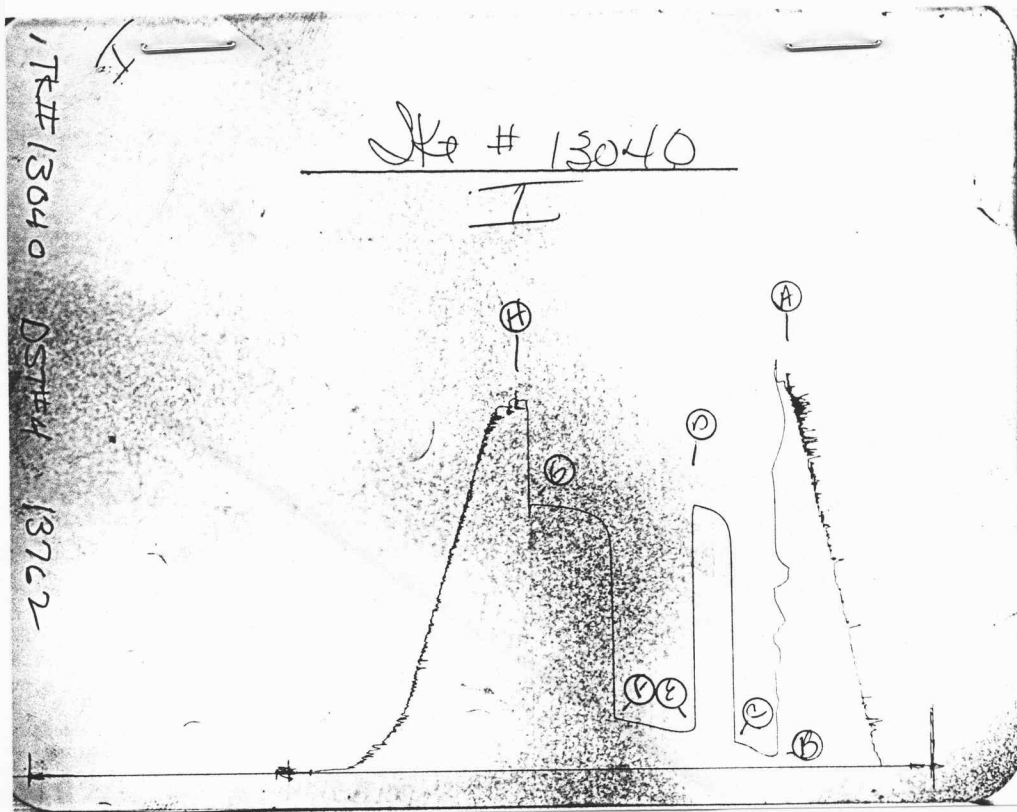
OPERATIONAL COMMENTS

RECOVERED 180 FEET OF GAS ABOVE FLUID.

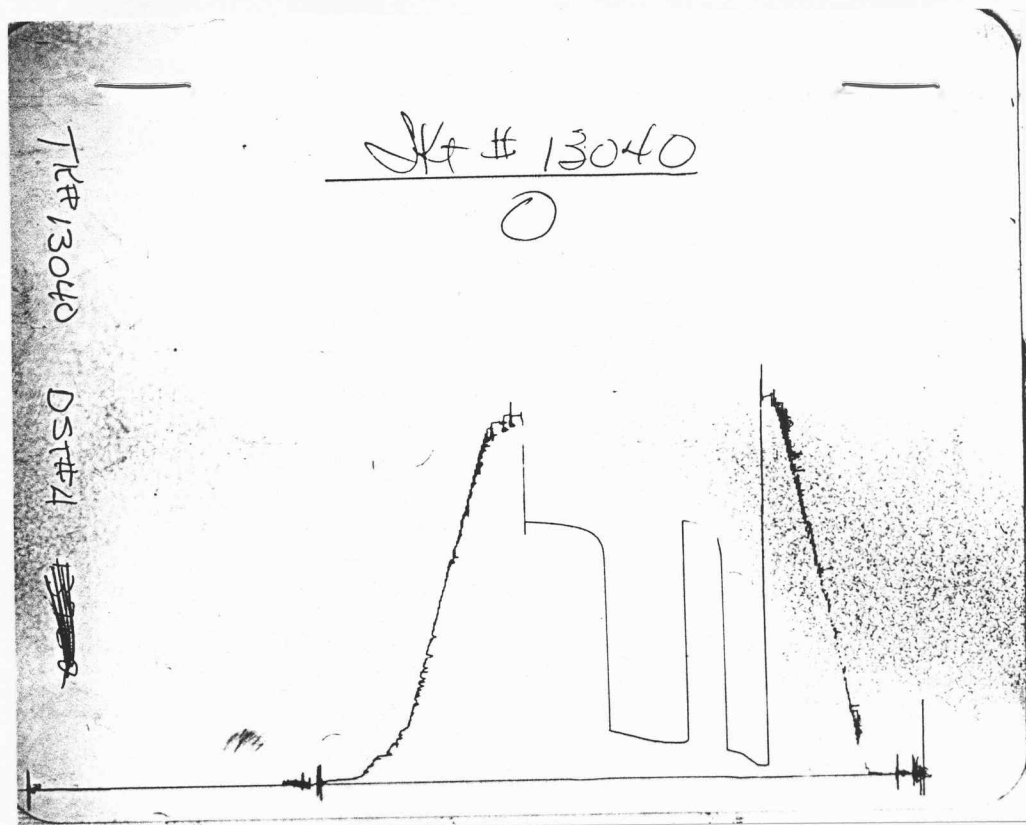
COMPANY : RAINS & WILLIAMSON OIL CO INC
 WELL : #2
 GAUGE # : 13762
 DATE : 20/ 8/87

FIELD : SUSIE DUNCAN
 JOB # : 13040
 DEPTH : 4098
 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	9:50: 0	0.000	61.000	122.00	0.000
2	9:54:59	0.083	61.000	122.00	0.000
3	10: 0: 0	0.167	66.000	122.00	5.000
4	10: 5: 0	0.250	80.000	122.00	14.000
5	10: 9:59	0.333	105.000	122.00	25.000
6	10:15: 0	0.417	118.000	122.00	13.000
7	10:20: 0	0.500	130.000	122.00	12.000
8	10:23: 0	0.550	905.000	122.00	775.000
9	10:26: 0	0.600	1230.000	122.00	325.000
10	10:29: 0	0.650	1264.000	122.00	34.000
11	10:32: 0	0.700	1284.000	122.00	20.000
12	10:35: 0	0.750	1297.000	122.00	13.000
13	10:38: 0	0.800	1307.000	122.00	10.000
14	10:41: 0	0.850	1313.000	122.00	6.000
15	10:44: 0	0.900	1320.000	122.00	7.000
16	10:47: 0	0.950	1325.000	122.00	5.000
17	10:50: 0	1.000	1330.000	122.00	5.000
18	10:51: 0	1.017	186.000	122.00	-1144.000
19	10:54:59	1.083	186.000	122.00	0.000
20	11: 0: 0	1.167	186.000	122.00	0.000
21	11: 5: 0	1.250	189.000	122.00	3.000
22	11: 9:59	1.333	195.000	122.00	6.000
23	11:15: 0	1.417	203.000	122.00	8.000
24	11:20: 0	1.500	212.000	122.00	9.000
25	11:24:59	1.583	221.000	122.00	9.000
26	11:30: 0	1.667	229.000	122.00	8.000
27	11:35: 0	1.750	235.000	122.00	6.000
28	11:39:59	1.833	242.000	122.00	7.000
29	11:45: 0	1.917	250.000	122.00	8.000
30	11:50: 0	2.000	256.000	122.00	6.000
31	11:53: 0	2.050	1148.000	122.00	892.000
32	11:56: 0	2.100	1228.000	122.00	80.000
33	11:59: 0	2.150	1256.000	122.00	28.000
34	12: 2: 0	2.200	1270.000	122.00	14.000
35	12: 5: 0	2.250	1284.000	122.00	14.000
36	12: 8: 0	2.300	1293.000	122.00	9.000
37	12:11: 0	2.350	1301.000	122.00	8.000
38	12:14: 0	2.400	1308.000	122.00	7.000
39	12:17: 0	2.450	1311.000	122.00	3.000
40	12:20: 0	2.500	1317.000	122.00	6.000
41	12:23: 0	2.550	1321.000	122.00	4.000
42	12:26: 0	2.600	1324.000	122.00	3.000
43	12:29: 0	2.650	1327.000	122.00	3.000
44	12:32: 0	2.700	1330.000	122.00	3.000
45	12:35: 0	2.750	1332.000	122.00	2.000
46	12:38: 0	2.800	1335.000	122.00	3.000
47	12:41: 0	2.850	1337.000	122.00	2.000
48	12:44: 0	2.900	1339.000	122.00	2.000
49	12:47: 0	2.950	1340.000	122.00	1.000
50	12:50: 0	3.000	1340.000	122.00	0.000



Inside Recorder



Outside Recorder