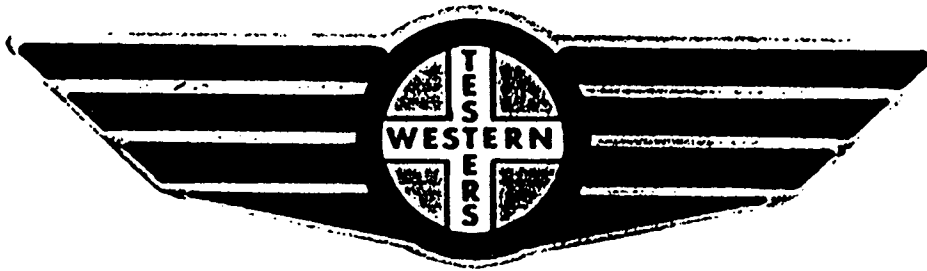


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY SOURCE PETROLEUM LEASE & WELL NO. SPARKS A-1 SEC. 17 TWP. 34S RGE. 2W TEST NO. 1 DATE 7/23/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7/23/88
CUSTOMER : SOURCE PETROLEUM
WELL : A-1 TEST: 1
ELEVATION : 1111 KB
SECTION : 17
RANGE : 2W COUNTY : SUMNER
GAUGE SN# : 4332 RANGE : 4200
TICKET : 13719
LEASE : SPARKS
GEOLOGIST : DAVIS
FORMATION : MISSISSIPPI
TOWNSHIP : 34S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4090 TO : 4133 TOTAL DEPTH : 4133

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4085 SIZE : 6.63
PACKER DEPTH : 4090 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 44
WEIGHT : 9.4 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 14500
JARS-MAKE : SERIAL NUMBER :
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 : 4070 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 43 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 : STRONG BLOW ON INITIAL FLOW PERIOD.
BLOW COMMENT #2 : STRONG BLOW - GAS TO SURFACE 1 MINUTE INTO
BLOW COMMENT #3 : FINAL FLOW PERIOD. SEE ATTACHED GAS SHEET.
BLOW COMMENT #4 :

RECOVERED : 130 FT OF: GASSY MUD

Total Barrels Fluid = 1.82
Total Fluid Prod Rate = 29.17 BFPD
Indicated Wtr Rate = 2.92 BWPD

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

SET PACKER(S) : 8:00 AM

TIME STARTED OFF BOTTOM : 11:30 AM

WELL TEMPERATURE : 135

INITIAL HYDROSTATIC PRESSURE

(A) 2051

INITIAL FLOW PERIOD MIN: 30

(B) 37 PSI TO (C) : 37

INITIAL CLOSED IN PERIOD MIN: 60

(D) 1738

FINAL FLOW PERIOD MIN: 60

(E) 58 PSI TO (F) : 58

FINAL CLOSED IN PERIOD MIN: 66

(G) 1714

FINAL HYDROSTATIC PRESSURE

(H) 2018

GAS FLOW REPORT

Date : 7/23/88	Ticket # : 13719
Customer : SOURCE PETROLEUM	Lease : SPARKS
Well : A-1 Test : 1	Geologist : DAVIS
Elevation (KB) : 1111 KB	Formation : MISSISSIPPI
Section : 17	Township : 34S
Range : 2W	County : SUMNER
Gauge SN # : 4332	Range : 4200
	State : KANSAS
	Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
---------------------	-------------	----------------	-------------------	------------------

PRE FLOW
=====

SECOND FLOW
=====

1	MERLA	1/2"		GAS TO SURFACE
10		1/2"	12"WTR	21900 CFPD
20		1/2"	13"WTR	22800 CFPD
30		1/2"	12"WTR	21900 CFPD
40		1/2"	12"WTR	21900 CFPD
50		1/2"	12"WTR	21900 CFPD
60		1/2"	12"WTR	21900 CFPD

Gas Bottle SN # :
 Date Bottle Filled : 7/23/88
 Date to be Invoiced : 7/23/88

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : SOURCE PETROLEUM
RIG : SUMNER-KANSAS
FIELD : SPARKS
WELL : A-1
DATE : 7/23/88
GAUGE NO : 4332

OPERATIONAL COMMENTS

COMPANY : SOURCE PETROLEUM
 WELL : A-1
 GAUGE # : 4332
 DATE : 23/ 7/88

FIELD : SPARKS
 JOB # : 13719
 DEPTH : 4133
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8: 0: 0	0.000	37.000	135.00	0.000
2	8: 4: 59	0.083	37.000	135.00	0.000
3	8: 10: 0	0.167	37.000	135.00	0.000
4	8: 15: 0	0.250	37.000	135.00	0.000
5	8: 19: 59	0.333	37.000	135.00	0.000
6	8: 25: 0	0.417	37.000	135.00	0.000
7	8: 30: 0	0.500	37.000	135.00	0.000
8	8: 33: 0	0.550	212.000	135.00	175.000
9	8: 36: 0	0.600	436.000	135.00	224.000
10	8: 39: 0	0.650	649.000	135.00	213.000
11	8: 42: 0	0.700	845.000	135.00	196.000
12	8: 45: 0	0.750	1040.000	135.00	195.000
13	8: 48: 0	0.800	1197.000	135.00	157.000
14	8: 51: 0	0.850	1344.000	135.00	147.000
15	8: 54: 0	0.900	1449.000	135.00	105.000
16	8: 57: 0	0.950	1531.000	135.00	82.000
17	9: 0: 0	1.000	1589.000	135.00	58.000
18	9: 2: 59	1.050	1633.000	135.00	44.000
19	9: 6: 0	1.100	1661.000	135.00	28.000
20	9: 9: 0	1.150	1681.000	135.00	20.000
21	9: 12: 0	1.200	1696.000	135.00	15.000
22	9: 15: 0	1.250	1709.000	135.00	13.000
23	9: 18: 0	1.300	1717.000	135.00	8.000
24	9: 21: 0	1.350	1722.000	135.00	5.000
25	9: 24: 0	1.400	1731.000	135.00	9.000
26	9: 27: 0	1.450	1734.000	135.00	3.000
27	9: 30: 0	1.500	1738.000	135.00	4.000
28	9: 31: 0	1.517	58.000	135.00	-1680.000
29	9: 34: 59	1.583	58.000	135.00	0.000
30	9: 40: 0	1.667	58.000	135.00	0.000
31	9: 45: 0	1.750	58.000	135.00	0.000
32	9: 49: 59	1.833	58.000	135.00	0.000
33	9: 55: 0	1.917	58.000	135.00	0.000
34	10: 0: 0	2.000	58.000	135.00	0.000
35	10: 4: 59	2.083	58.000	135.00	0.000
36	10: 10: 0	2.167	58.000	135.00	0.000
37	10: 15: 0	2.250	58.000	135.00	0.000
38	10: 19: 59	2.333	58.000	135.00	0.000
39	10: 25: 0	2.417	58.000	135.00	0.000
40	10: 30: 0	2.500	58.000	135.00	0.000
41	10: 33: 0	2.550	283.000	135.00	225.000
42	10: 36: 0	2.600	510.000	135.00	227.000
43	10: 39: 0	2.650	690.000	135.00	180.000
44	10: 42: 0	2.700	845.000	135.00	155.000
45	10: 45: 0	2.750	993.000	135.00	148.000
46	10: 48: 0	2.800	1133.000	135.00	140.000
47	10: 51: 0	2.850	1253.000	135.00	120.000
48	10: 54: 0	2.900	1366.000	135.00	113.000
49	10: 57: 0	2.950	1438.000	135.00	72.000
50	11: 0: 0	3.000	1507.000	135.00	69.000
51	11: 3: 0	3.050	1556.000	135.00	49.000
52	11: 6: 0	3.100	1593.000	135.00	37.000

COMPANY : SOURCE PETROLEUM
WELL : A-1
GAUGE # : 4332
DATE : 23/ 7/88

FIELD : SPARKS
JOB # : 13719
DEPTH : 4133
TEST :

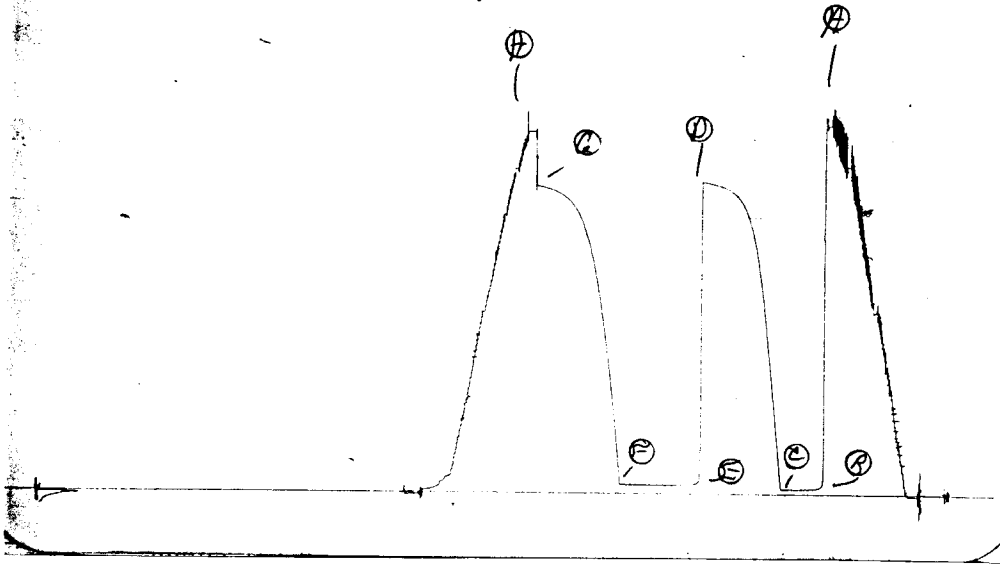
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P(1-1)
53	11: 9: 0	3.150	1620.000	135.00	27.000
54	11:12: 0	3.200	1644.000	135.00	24.000
55	11:15: 0	3.250	1660.000	135.00	16.000
56	11:18: 0	3.300	1676.000	135.00	16.000
57	11:21: 0	3.350	1686.000	135.00	10.000
58	11:24: 0	3.400	1695.000	135.00	9.000
59	11:27: 0	3.450	1701.000	135.00	6.000
60	11:30: 0	3.500	1708.000	135.00	7.000
61	11:33: 0	3.550	1712.000	135.00	4.000
62	11:36: 0	3.600	1714.000	135.00	2.000

WESTERN TESTING CO. INC.

4332 DST#1

~~AK~~ 13719

1

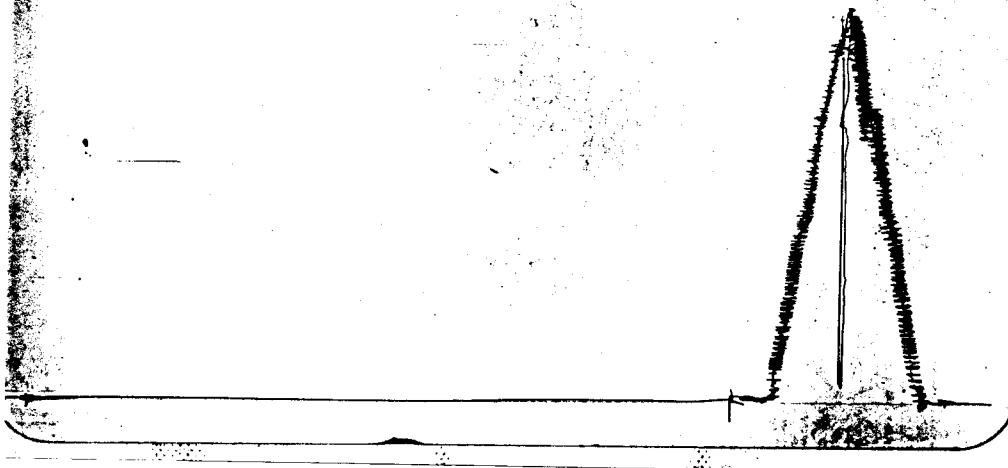


Inside Recorder

13520 DST#1

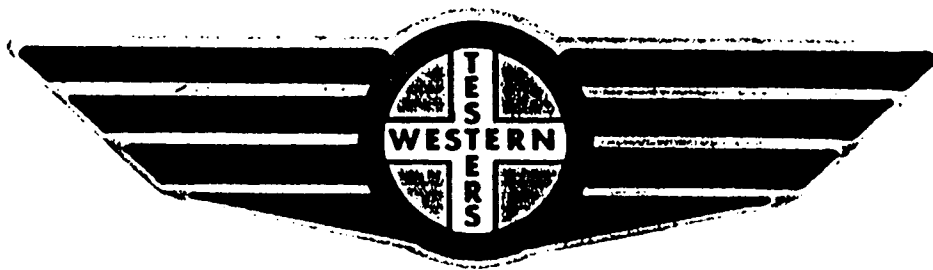
AK 13719

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Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY SOURCE PETROLEUM LEASE & WELL NO. SPARKS #A-1 SEC. 17 TWP. 34S RGE. 2W TEST NO. 2 DATE 7/25/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-25-88 TICKET : 13720
CUSTOMER : SOURCE PETROLEUM LEASE : SPARKS
WELL : #A-1 TEST: 2 GEOLOGIST : S DAVIS
ELEVATION : 1111 KB FORMATION : -
SECTION : 17 TOWNSHIP : 34S
RANGE : 2W COUNTY : SUMNER STATE : KANSAS
GAUGE SN# : 4332 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 4492 TO : 4506 TOTAL DEPTH : 4506
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4487 SIZE : 6.63
PACKER DEPTH : 4492 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 63
WEIGHT : 8.8 WATER LOSS (CC) : 10.4
CHLORIDES (PPM) : 18200
JARS-MAKE : WTC SERIAL NUMBER : 411
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 : 4464 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 14 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-VERY WEAK BLOW FOR 10 MINUTES & DIED.
BLOW COMMENT #2 : FINAL FLOW-FEW BUBBLES
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: DRILLING MUD

Total Barrels Fluid = 0.14
Total Fluid Prod Rate = 3.37 BFPD
Indicated Wtr Rate = 0.34 BWPD

REMARK 1 : FLUSHED TOOL INITIAL FLOW
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 10:50 AM

TIME STARTED OFF BOTTOM : 1:20 PM

WELL TEMPERATURE : 130

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 54

FINAL HYDROSTATIC PRESSURE

(A) 2178

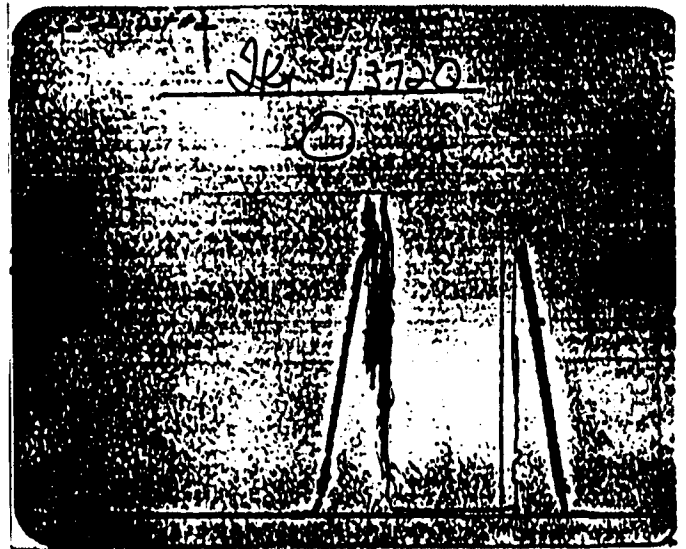
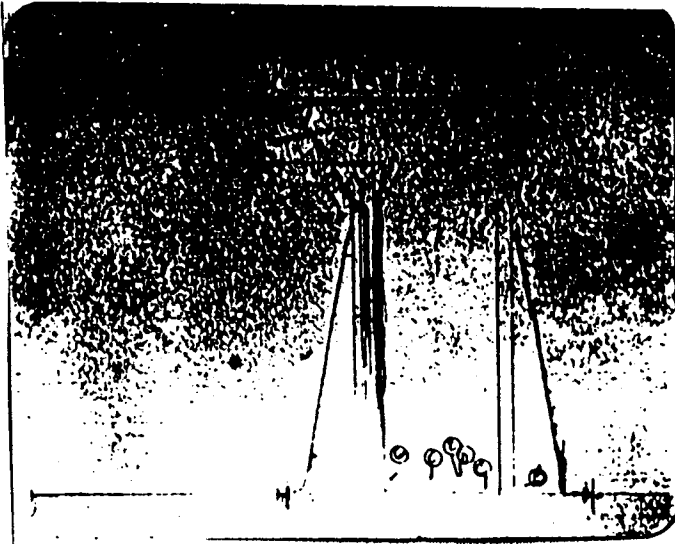
(B) 39 PSI TO (C) : 24

(D) 24

(E) 24 PSI TO (F) : 24

(G) 24

(H) 2165



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : SOURCE PETROLEUM
RIG : SUMNER-KANSAS
FIELD : SPARKS
WELL : #A-1
DATE : 7-25-88
GAUGE NO : 4332

OPERATIONAL COMMENTS

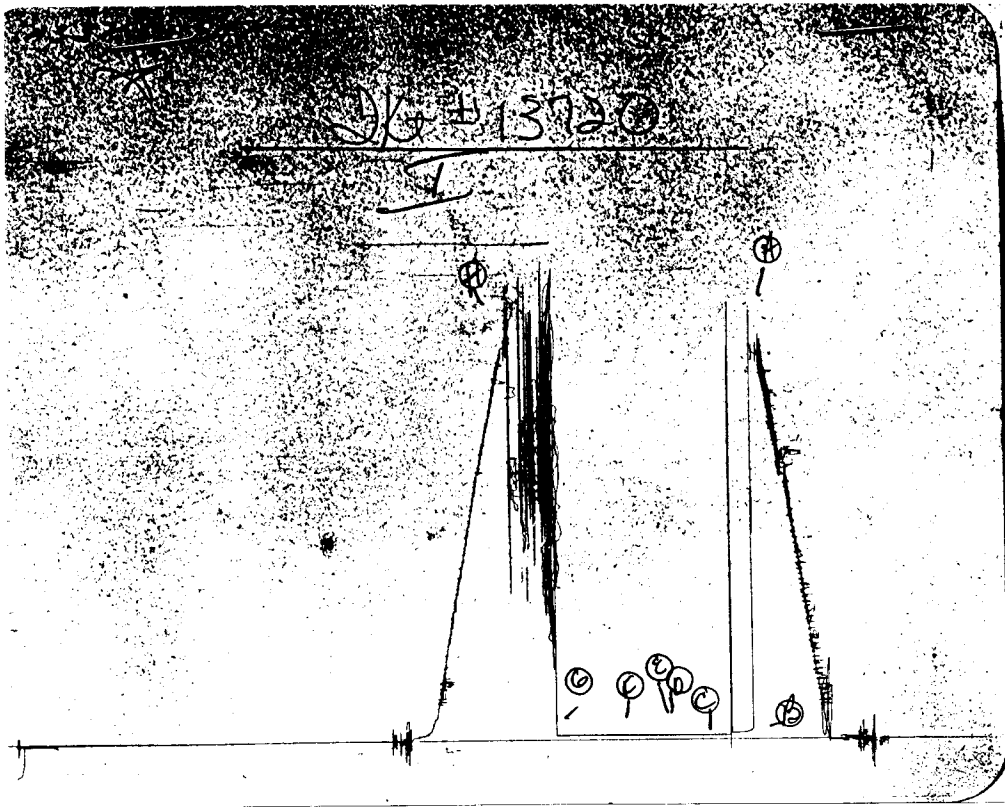
FLUSHED TOOL INITIAL FLOW

COMPANY : SOURCE PETROLEUM
 WELL : #A-1
 GAUGE # : 4332
 DATE : 25/ 7/88

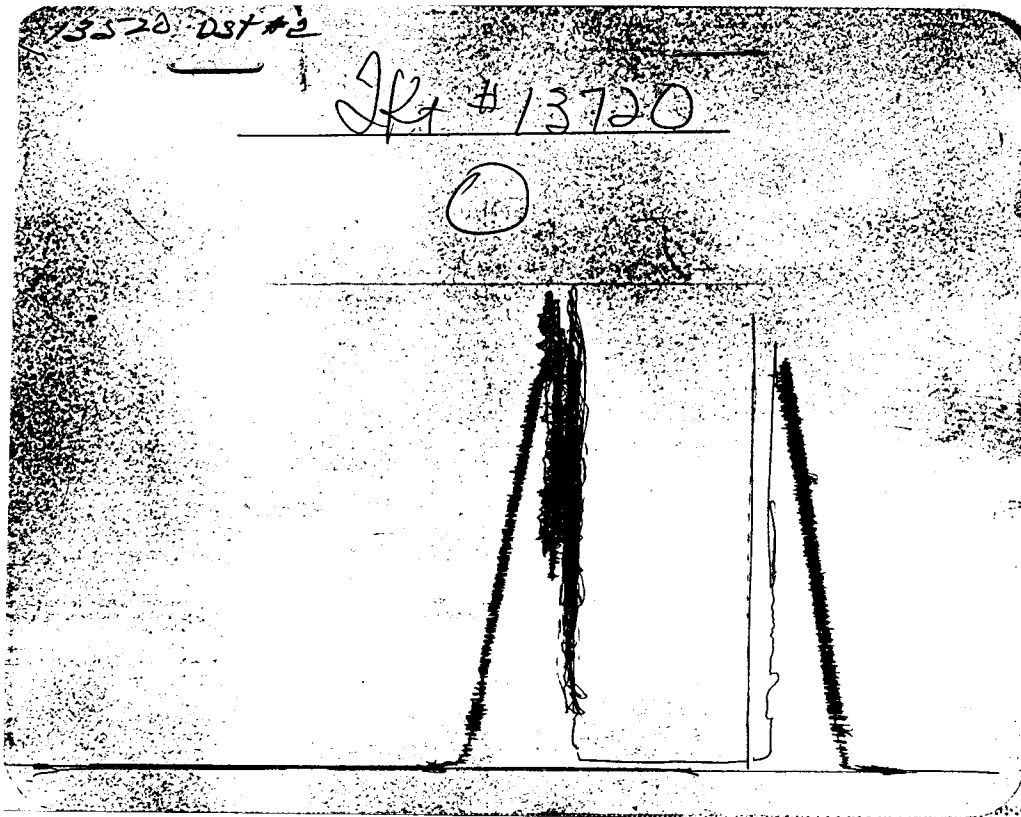
FIELD : SPARKS
 JOB # : 13720
 DEPTH : 4506
 TEST : FLUSHED TOOL INITIAL FLOW

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	10:50: 0	0.000	39.000	130.00	0.000
3	10:54:59	0.083	39.000	130.00	0.000
4	11: 0: 0	0.167	36.000	130.00	-3.000
5	11: 5: 0	0.250	36.000	130.00	0.000
6	11: 9:59	0.333	24.000	130.00	-12.000
7	11:15: 0	0.417	24.000	130.00	0.000
8	11:20: 0	0.500	24.000	130.00	0.000
INITIAL SHUT-IN					
9	11:23: 0	0.550	24.000	130.00	0.000
10	11:26: 0	0.600	24.000	130.00	0.000
11	11:29: 0	0.650	24.000	130.00	0.000
12	11:32: 0	0.700	24.000	130.00	0.000
13	11:35: 0	0.750	24.000	130.00	0.000
14	11:38: 0	0.800	24.000	130.00	0.000
15	11:41: 0	0.850	24.000	130.00	0.000
16	11:44: 0	0.900	24.000	130.00	0.000
17	11:47: 0	0.950	24.000	130.00	0.000
18	11:50: 0	1.000	24.000	130.00	0.000
FINAL FLOW					
19	11:51: 0	1.017	24.000	130.00	0.000
20	11:54:59	1.083	24.000	130.00	0.000
21	12: 0: 0	1.167	24.000	130.00	0.000
22	12: 5: 0	1.250	24.000	130.00	0.000
23	12: 9:59	1.333	24.000	130.00	0.000
24	12:15: 0	1.417	24.000	130.00	0.000
25	12:20: 0	1.500	24.000	130.00	0.000
FINAL SHUT-IN					
26	12:23: 0	1.550	24.000	130.00	0.000
27	12:26: 0	1.600	24.000	130.00	0.000
28	12:29: 0	1.650	24.000	130.00	0.000
29	12:32: 0	1.700	24.000	130.00	0.000
30	12:35: 0	1.750	24.000	130.00	0.000
31	12:38: 0	1.800	24.000	130.00	0.000
32	12:41: 0	1.850	24.000	130.00	0.000
33	12:44: 0	1.900	24.000	130.00	0.000
34	12:47: 0	1.950	24.000	130.00	0.000
35	12:50: 0	2.000	24.000	130.00	0.000
36	12:53: 0	2.050	24.000	130.00	0.000
37	12:56: 0	2.100	24.000	130.00	0.000
38	12:59: 0	2.150	24.000	130.00	0.000
39	13: 2: 0	2.200	24.000	130.00	0.000
40	13: 5: 0	2.250	24.000	130.00	0.000
41	13: 8: 0	2.300	24.000	130.00	0.000
42	13:11: 0	2.350	24.000	130.00	0.000
43	13:14: 0	2.400	24.000	130.00	0.000

WESTERN TESTING CO. INC.

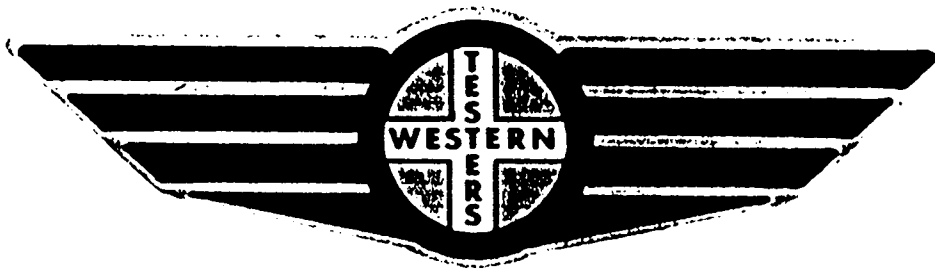


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY SOURCE PETROLEUM LEASE & WELL NO. SPARKS #A-1 SEC. 17 TWP. 34S RGE. 2W TEST NO. 3 DATE 7/26/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-26-88
CUSTOMER : SOURCE PETROLEUM
WELL : #A-1 TEST: 3
ELEVATION : 1111 KB
SECTION : 17
RANGE : 2W COUNTY : SUMNER
GAUGE SN# : 4332 RANGE : 4200
TICKET : 13721
LEASE : SPARKS
GEOLOGIST : S DAVIS
FORMATION : SIMPSON SD
TOWNSHIP : 34S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4581 TO : 4601 TOTAL DEPTH : 4601
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4576 SIZE : 6.63
PACKER DEPTH : 4581 SIZE : 5.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.1 WATER LOSS (CC) : 8.0
CHLORIDES (PPM) : 41000
JARS-MAKE : WTC SERIAL NUMBER : 411
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 : 4553 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 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 BUILDING TO A GOOD 8" BLOW.
BLOW COMMENT #2 : FINAL FLOW-WEAK TO A 4" BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 200 FT OF: MUDDY WATER

CHLORIDES: 85000 PPM

Total Barrels Fluid = 2.81
Total Fluid Prod Rate = 67.33 BFPD
Indicated Wtr Rate = 33.66 BWPD

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

SET PACKER(S) : 2:15 PM

TIME STARTED OFF BOTTOM : 5:00 PM

WELL TEMPERATURE : 143

INITIAL HYDROSTATIC PRESSURE

(A) 2289

INITIAL FLOW PERIOD MIN: 30

(B) 53

PSI TO (C) : 68

INITIAL CLOSED IN PERIOD MIN: 48

(D) 1679

FINAL FLOW PERIOD MIN: 30

(E) 102

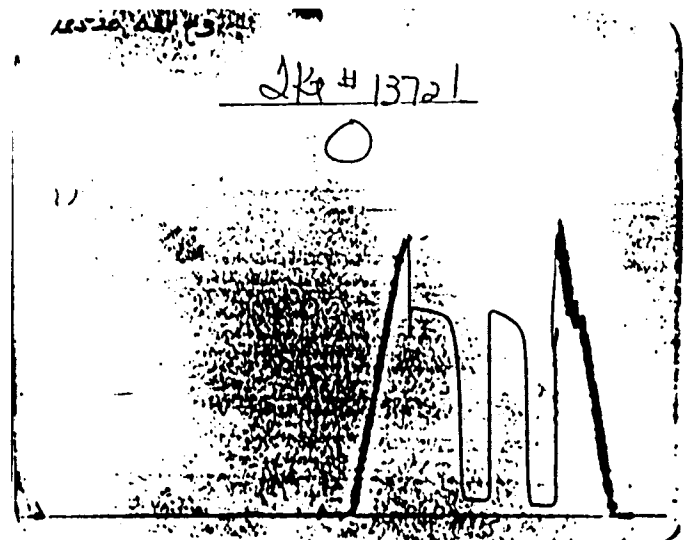
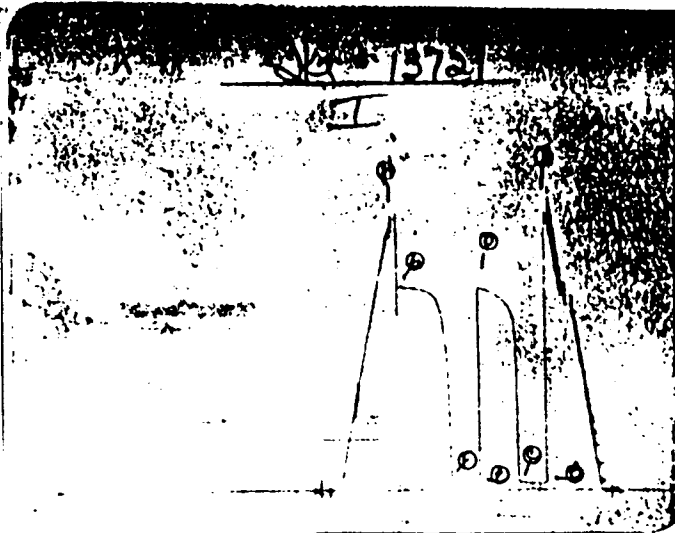
PSI TO (F) : 107

FINAL CLOSED IN PERIOD MIN: 60

(G) 1688

FINAL HYDROSTATIC PRESSURE

(H) 2251



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : SOURCE PETROLEUM
RIG : SUMNER-KANSAS
FIELD : SPARKS
WELL : #A-1
DATE : 7-26-88
GAUGE NO : 4332

OPERATIONAL COMMENTS

COMPANY : SOURCE PETROLEUM
 WELL : #A-1
 GAUGE # : 4332
 DATE : 26/ 7/88

FIELD : SPARKS
 JOB # : 13721
 DEPTH : 4601
 TEST :

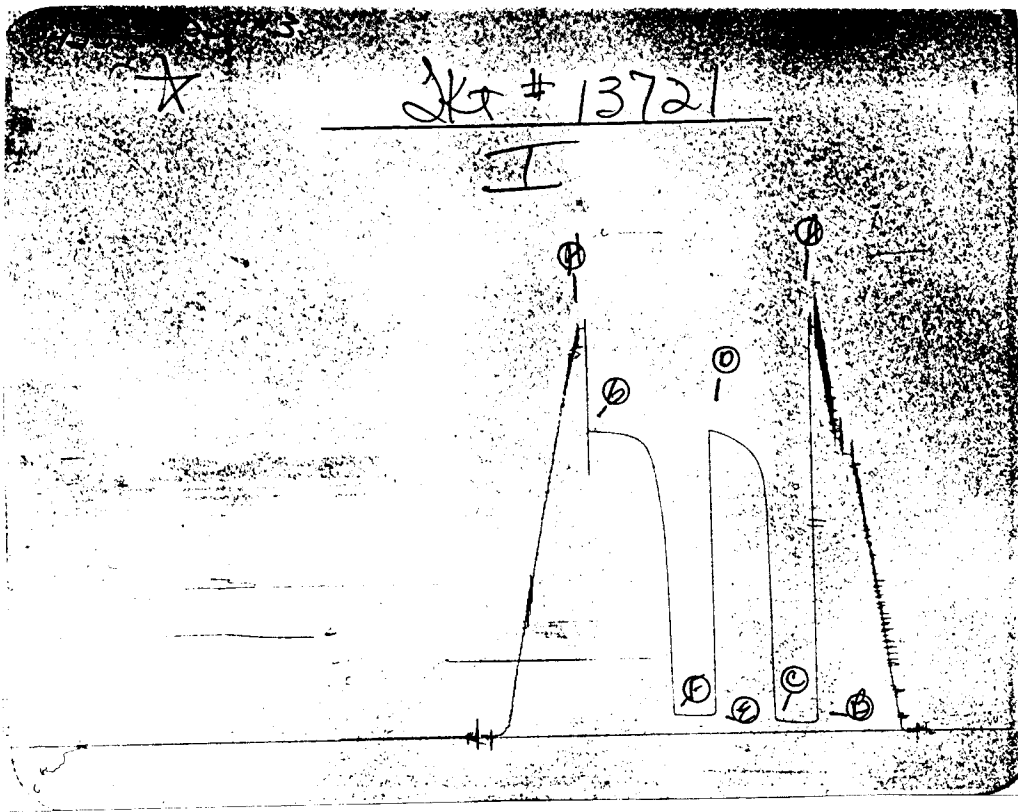
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	2:15: 0	0.000	53.000	143.00	0.000
3	2:19:59	0.083	53.000	143.00	0.000
4	2:25: 0	0.167	53.000	143.00	0.000
5	2:30: 0	0.250	54.000	143.00	1.000
6	2:34:59	0.333	57.000	143.00	3.000
7	2:40: 0	0.417	63.000	143.00	6.000
8	2:45: 0	0.500	68.000	143.00	5.000
INITIAL SHUT-IN					
9	2:48: 0	0.550	572.000	143.00	504.000
10	2:51: 0	0.600	1219.000	143.00	647.000
11	2:54: 0	0.650	1412.000	143.00	193.000
12	2:57: 0	0.700	1487.000	143.00	75.000
13	3: 0: 0	0.750	1527.000	143.00	40.000
14	3: 3: 0	0.800	1555.000	143.00	28.000
15	3: 6: 0	0.850	1578.000	143.00	23.000
16	3: 9: 0	0.900	1595.000	143.00	17.000
17	3:12: 0	0.950	1614.000	143.00	19.000
18	3:15: 0	1.000	1625.000	143.00	11.000
19	3:18: 0	1.050	1637.000	143.00	12.000
20	3:21: 0	1.100	1650.000	143.00	13.000
21	3:24: 0	1.150	1658.000	143.00	8.000
22	3:27: 0	1.200	1667.000	143.00	9.000
23	3:30: 0	1.250	1673.000	143.00	6.000
24	3:33: 0	1.300	1679.000	143.00	6.000
FINAL FLOW					
25	3:34: 0	1.317	102.000	143.00	-1577.000
26	3:37:59	1.383	102.000	143.00	0.000
27	3:43: 0	1.467	102.000	143.00	0.000
28	3:48: 0	1.550	102.000	143.00	0.000
29	3:52:59	1.633	103.000	143.00	1.000
30	3:58: 0	1.717	107.000	143.00	4.000
31	4: 3: 0	1.800	107.000	143.00	0.000
FINAL SHUT-IN					
32	4: 5:59	1.850	770.000	143.00	663.000
33	4: 9: 0	1.900	1121.000	143.00	351.000
34	4:12: 0	1.950	1291.000	143.00	170.000
35	4:15: 0	2.000	1429.000	143.00	138.000
36	4:18: 0	2.050	1525.000	143.00	96.000
37	4:21: 0	2.100	1580.000	143.00	55.000
38	4:23:59	2.150	1610.000	143.00	30.000
39	4:27: 0	2.200	1631.000	143.00	21.000
40	4:30: 0	2.250	1644.000	143.00	13.000
41	4:33: 0	2.300	1654.000	143.00	10.000
42	4:36: 0	2.350	1661.000	143.00	7.000
43	4:39: 0	2.400	1667.000	143.00	6.000
44	4:41:59	2.450	1671.000	143.00	4.000
45	4:45: 0	2.500	1674.000	143.00	3.000
46	4:48: 0	2.550	1677.000	143.00	3.000
47	4:51: 0	2.600	1680.000	143.00	3.000
48	4:54: 0	2.650	1682.000	143.00	2.000

COMPANY : SOURCE PETROLEUM
WELL : #A-1
GAUGE # : 4332
DATE : 26/ 7/88

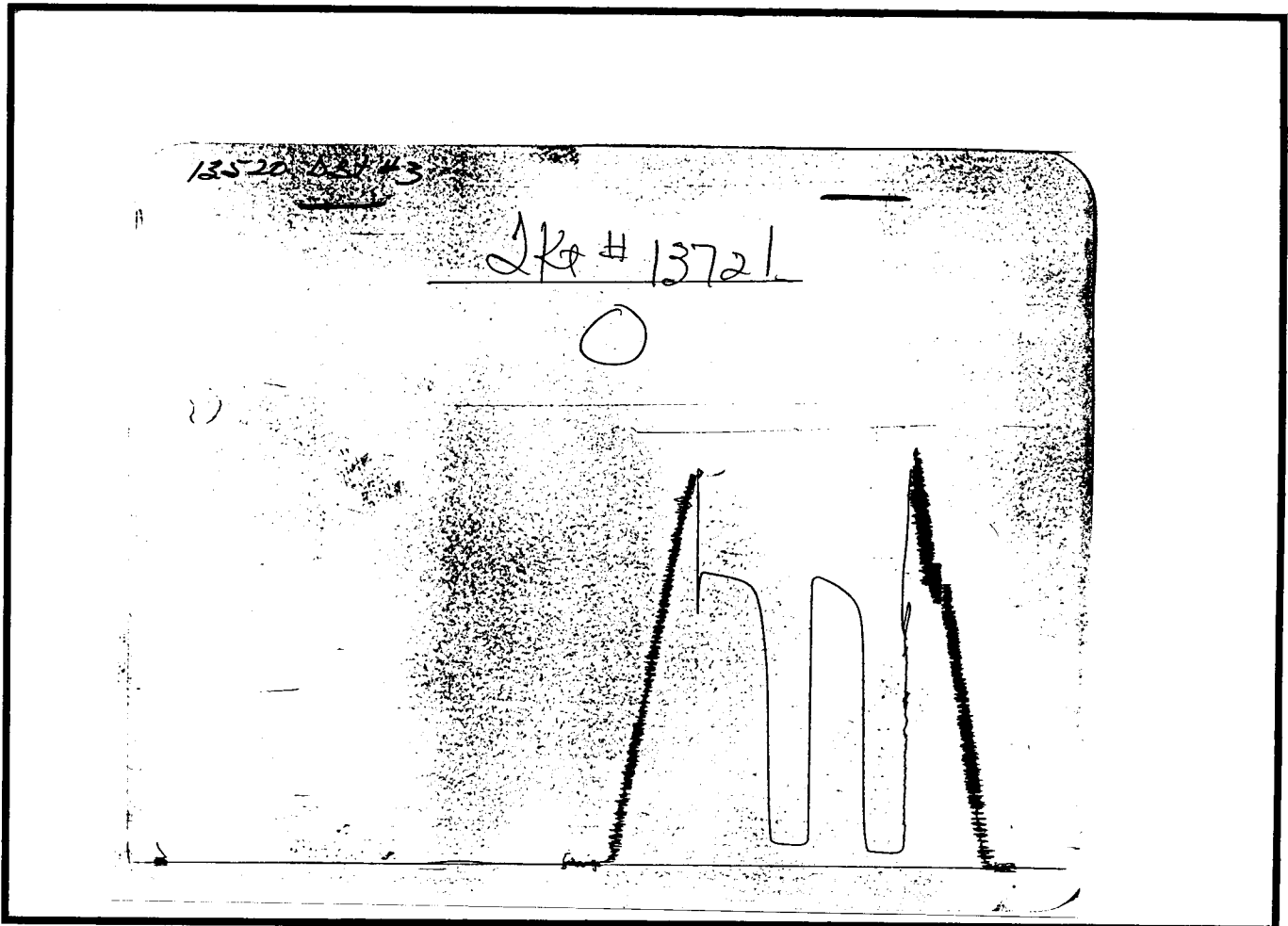
FIELD : SPARKS
JOB # : 13721
DEPTH : 4601
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4:56:59	2.700	1684.000	143.00	2.000
50	5: 0: 0	2.750	1686.000	143.00	2.000
51	5: 3: 0	2.800	1688.000	143.00	2.000

WESTERN TESTING CO. INC.

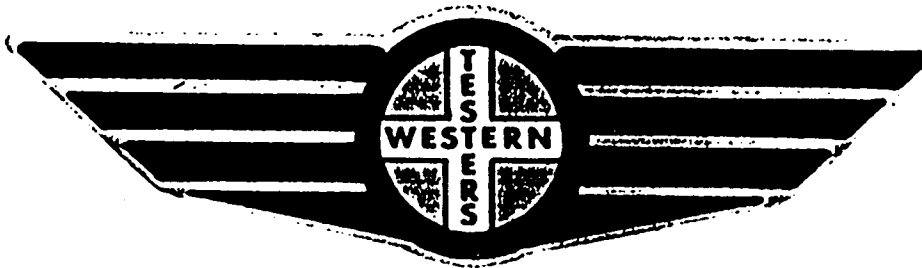


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY _____ SOURCE PETROLEUM _____ LEASE & WELL NO. _____ SPARKS A-1 _____ SEC. 17 TWP. 34S RGE. 2W TEST NO. _____ 4 DATE _____ 7/28/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7/28/88 TICKET : 13722
CUSTOMER : SOURCE PETROLEUM LEASE : SPARKS
WELL : A-1 TEST: 4 GEOLOGIST : DAVIS
ELEVATION : 1111 KB FORMATION : SIMPSON SAND
SECTION : 17 TOWNSHIP : 34S
RANGE : 2W COUNTY : SUMNER STATE : KANSAS
GAUGE SN# : 4332 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 4608 TO : 4650 TOTAL DEPTH : 4750
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4603 SIZE : 6.63
PACKER DEPTH : 4608 SIZE : 6.63
PACKER DEPTH : 4650 SIZE : 6.63
PACKER DEPTH : 4655 SIZE : 6.63

DRILLING CON. : ALLEN RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 41
WEIGHT : 9.1 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 40000
JARS-MAKE : WTC SERIAL NUMBER : 411
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 : 4580 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 42 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

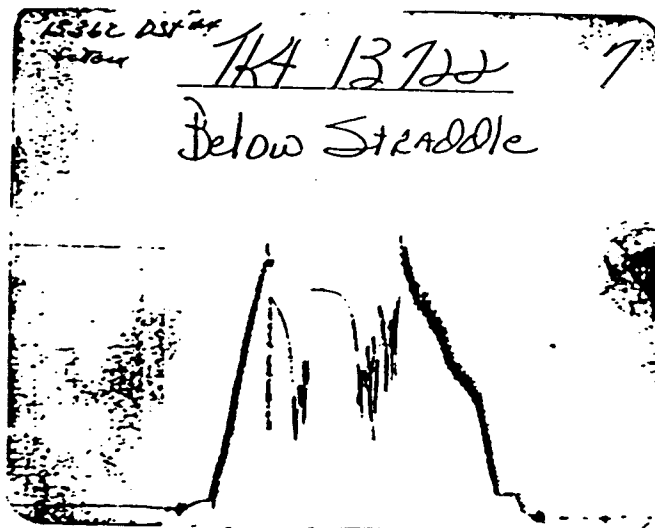
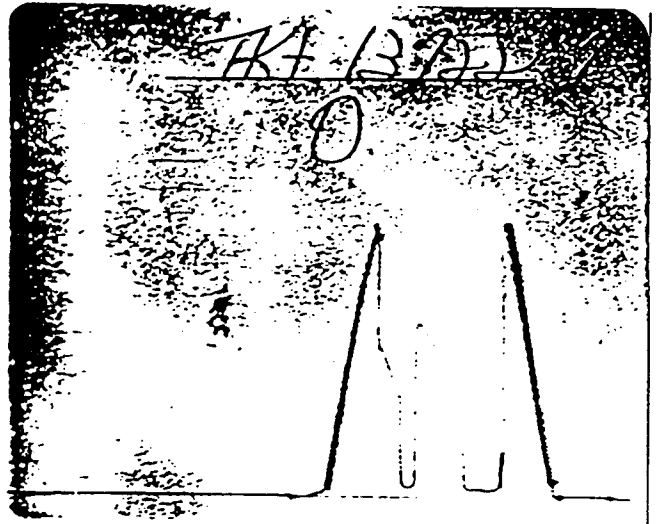
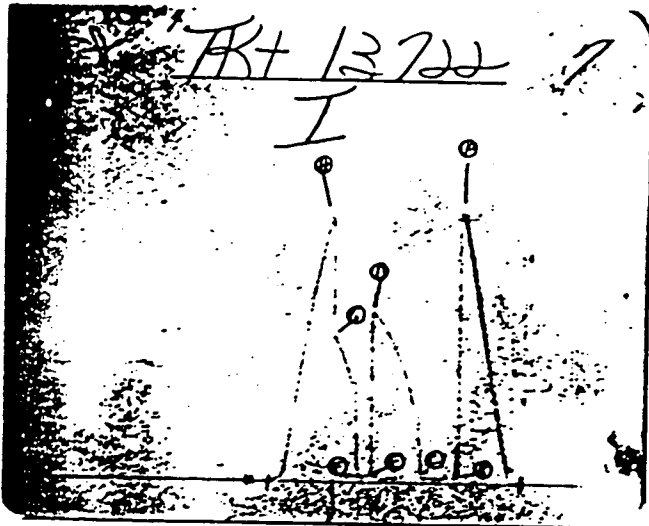
BLOW COMMENT #1 : INITIAL FLOW PERIOD VERY WEAK BLOW BUILDING
BLOW COMMENT #2 : TO A 3 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD VERY FEW BUBBLES.
BLOW COMMENT #4 :

RECOVERED : 70 FT OF: MUD
RECOVERED : 0 FT OF: CHLORIDES 18000 PPM

Total Barrels Fluid = 0.98
Total Fluid Prod Rate = 23.56 BFPD
Indicated Wtr Rate = 2.36 BWPD

REMARK 1 :
REMARK 2 : 100 FEET OF TAIL PIPE
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 8:15 AM TIME STARTED OFF BOTTOM : 10:45 AM
WELL TEMPERATURE : 135
INITIAL HYDROSTATIC PRESSURE (A) 2267
INITIAL FLOW PERIOD MIN: 45 (B) 60 PSI TO (C) : 48
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1468
FINAL FLOW PERIOD MIN: 15 (E) 61 PSI TO (F) : 61
FINAL CLOSED IN PERIOD MIN: 30 (G) 1259
FINAL HYDROSTATIC PRESSURE (H) 2267



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : SOURCE PETROLEUM
RIG : SUMNER-KANSAS
FIELD : SPARKS
WELL : A-1
DATE : 7/28/88
GAUGE NO : 4332

OPERATIONAL COMMENTS

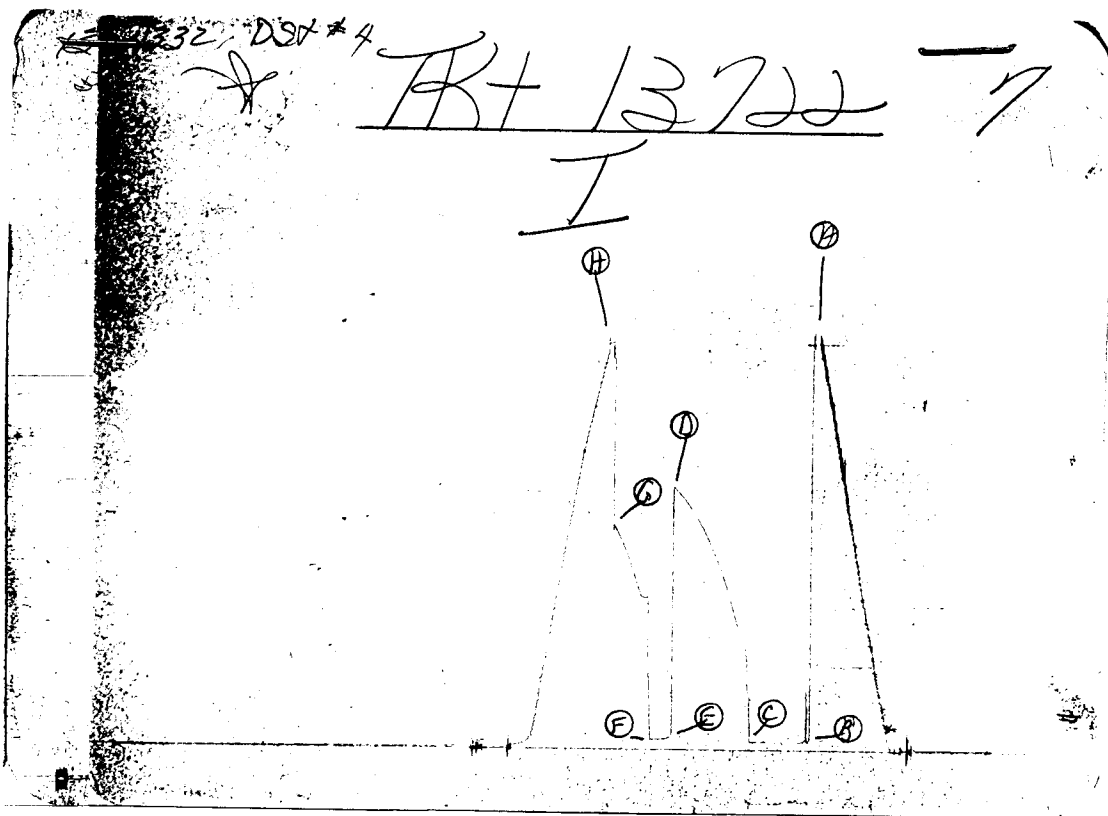
100 FEET OF TAIL PIPE

COMPANY : SOURCE PETROLEUM
 WELL : A-1
 GAUGE # : 4332
 DATE : 28/ 7/88

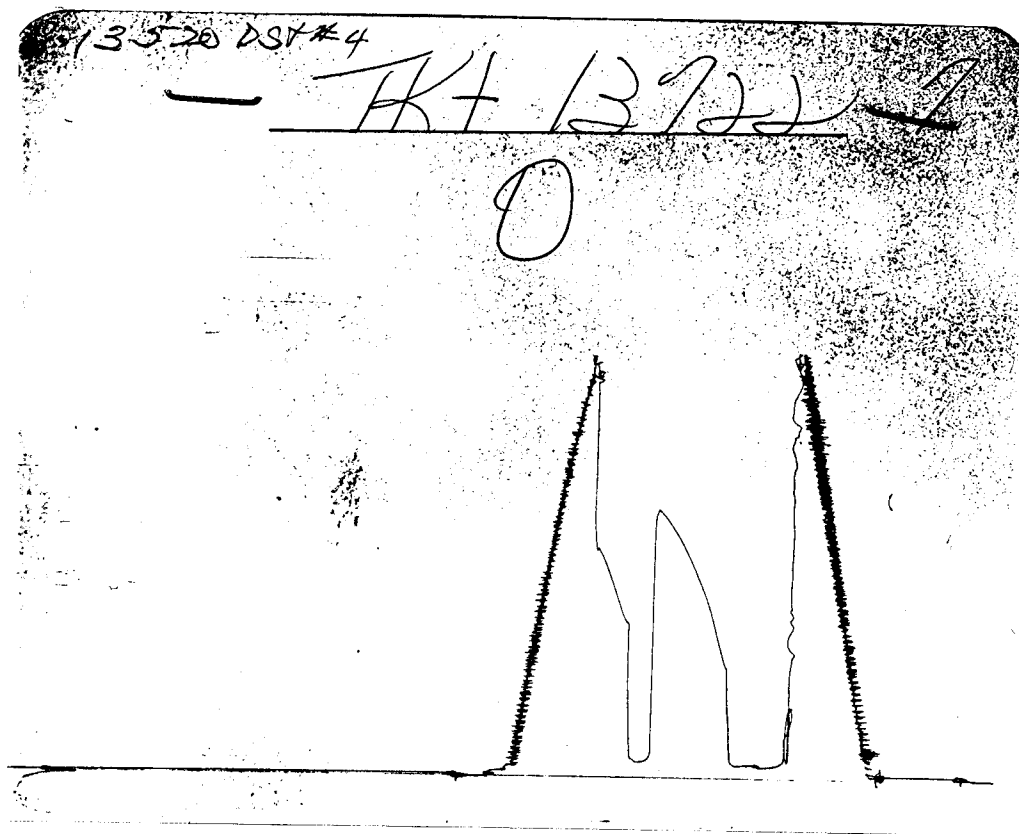
FIELD : SPARKS
 JOB # : 13722
 DEPTH : 4750
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8:15:0	0.000	60.000	135.00	0.000
INITIAL FLOW PERIOD					
2	8:19:59	0.083	47.000	135.00	-13.000
3	8:25:0	0.167	43.000	135.00	-4.000
4	8:30:0	0.250	41.000	135.00	-2.000
5	8:34:59	0.333	40.000	135.00	-1.000
6	8:40:0	0.417	42.000	135.00	2.000
7	8:45:0	0.500	48.000	135.00	6.000
8	8:49:59	0.583	48.000	135.00	0.000
9	8:55:0	0.667	48.000	135.00	0.000
10	9:0:0	0.750	48.000	135.00	0.000
INITIAL SHUT-IN PERIOD					
11	9:3:0	0.800	359.000	135.00	311.000
12	9:6:0	0.850	632.000	135.00	273.000
13	9:9:0	0.900	640.000	135.00	8.000
14	9:12:0	0.950	702.000	135.00	62.000
15	9:15:0	1.000	779.000	135.00	77.000
16	9:18:0	1.050	849.000	135.00	70.000
17	9:21:0	1.100	920.000	135.00	71.000
18	9:24:0	1.150	985.000	135.00	65.000
19	9:27:0	1.200	1044.000	135.00	59.000
20	9:30:0	1.250	1094.000	135.00	50.000
21	9:33:0	1.300	1149.000	135.00	55.000
22	9:36:0	1.350	1191.000	135.00	42.000
23	9:39:0	1.400	1240.000	135.00	49.000
24	9:42:0	1.450	1284.000	135.00	44.000
25	9:45:0	1.500	1319.000	135.00	35.000
26	9:48:0	1.550	1355.000	135.00	36.000
27	9:51:0	1.600	1388.000	135.00	33.000
28	9:54:0	1.650	1416.000	135.00	28.000
29	9:57:0	1.700	1443.000	135.00	27.000
30	10:0:0	1.750	1468.000	135.00	25.000
31	10:1:0	1.767	61.000	135.00	-1407.000
32	10:4:59	1.833	61.000	135.00	0.000
33	10:10:0	1.917	61.000	135.00	0.000
34	10:15:0	2.000	61.000	135.00	0.000
35	10:18:0	2.050	403.000	135.00	342.000
36	10:21:0	2.100	859.000	135.00	456.000
37	10:24:0	2.150	861.000	135.00	2.000
38	10:27:0	2.200	893.000	135.00	32.000
39	10:30:0	2.250	964.000	135.00	71.000
40	10:33:0	2.300	1028.000	135.00	64.000
41	10:36:0	2.350	1094.000	135.00	66.000
42	10:39:0	2.400	1150.000	135.00	56.000
43	10:42:0	2.450	1203.000	135.00	53.000
44	10:45:0	2.500	1259.000	135.00	56.000

WESTERN TESTING CO. INC.



Inside Recorder



Outside Recorder

13362 DST #4
Bottom

KA 13722 7

Below Straddle

