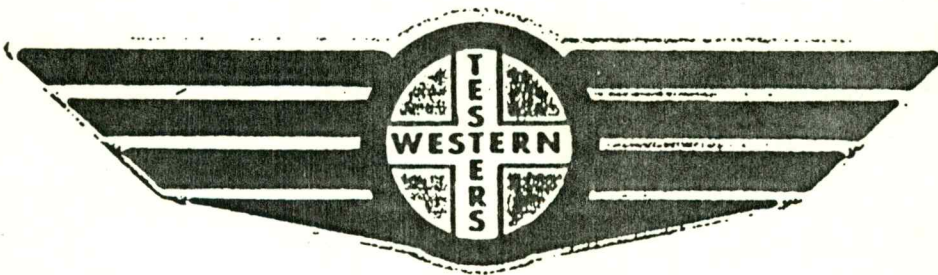


# FORMATION TEST REPORT

*Wilbur Bittle #1*



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

**RECEIVED**  
FEB 11 '88  
General BEND  
Division Office

COMPANY ENERGY EXPLORATION, INC. LEASE & WELL NO. WILBUR BITTLE #1 SEC. 12 TWP. 10S RGE. 26W TEST NO. 1 DA 1-18-88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1-18-88  
CUSTOMER : ENERGY EXPLORATION INC.  
WELL : #1 TEST: 1  
ELEVATION : 2568 GL  
SECTION : 12  
RANGE : 26W COUNTY : SHERIDAN  
GAUGE SN# : 3849 RANGE : 4200  
TICKET : 12532  
LEASE : WILBUR BITTLE  
GEOLOGIST : K. HOWARD  
FORMATION : KANSAS CITY B  
TOWNSHIP : 10S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3843 TO : 3865 TOTAL DEPTH : 3865  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3838 SIZE : 6.75  
PACKER DEPTH : 3843 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMICAL VISCOSITY : 57  
WEIGHT : 94 WATER LOSS (CC) : 11.2  
CHLORIDES (PPM) : 5000  
JARS-MAKE : NO 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 : 3823 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 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 : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW IN DIESEL-INCREASING TO 4" DEEP.  
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW IN DIESEL-INCREASING TO 2" DEEP.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 120 FT OF: MUDDY WATER  
15% MUD-85% WATER

CHLORIDES: 45000 PPM

Total Barrels Fluid = 1.68  
Total Fluid Prod Rate = 26.93 BFPD  
Indicated Wtr Rate = 23.56 BWPD

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

SET PACKER(S) : 2:14 PM TIME STARTED OFF BOTTOM : 5:44 PM  
WELL TEMPERATURE : 115  
INITIAL HYDROSTATIC PRESSURE (A) 1991  
INITIAL FLOW PERIOD MIN: 30 (B) 23 PSI TO (C) : 37  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 793  
FINAL FLOW PERIOD MIN: 60 (E) 53 PSI TO (F) : 70  
FINAL CLOSED IN PERIOD MIN: 60 (G) 723  
FINAL HYDROSTATIC PRESSURE (H) 1939

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.  
RIG : SHERIDAN-KANSAS  
FIELD : WILBUR BITTLE  
WELL : #1  
DATE : 1-18-88  
GAUGE NO : 3849

OPERATIONAL COMMENTS

COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 18/ 1/88

FIELD : WILBUR BITTLE  
 JOB # : 12532  
 DEPTH : 3865  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:14:0	0.000	23.000	115.00	0.000
2	2:18:59	0.083	25.000	115.00	2.000
3	2:24:0	0.167	27.000	115.00	2.000
4	2:29:0	0.250	29.000	115.00	2.000
5	2:33:59	0.333	33.000	115.00	4.000
6	2:39:0	0.417	35.000	115.00	2.000
7	2:44:0	0.500	37.000	115.00	2.000
8	2:47:0	0.550	481.000	115.00	444.000
9	2:50:0	0.600	598.000	115.00	117.000
10	2:53:0	0.650	639.000	115.00	41.000
11	2:56:0	0.700	666.000	115.00	27.000
12	2:59:0	0.750	687.000	115.00	21.000
13	3: 2: 0	0.800	701.000	115.00	14.000
14	3: 5: 0	0.850	712.000	115.00	11.000
15	3: 8: 0	0.900	721.000	115.00	9.000
16	3:11:0	0.950	727.000	115.00	6.000
17	3:14:0	1.000	732.000	115.00	5.000
18	3:17:0	1.050	736.000	115.00	4.000
19	3:20:0	1.100	742.000	115.00	6.000
20	3:23:0	1.150	746.000	115.00	4.000
21	3:26:0	1.200	751.000	115.00	5.000
22	3:29:0	1.250	759.000	115.00	8.000
23	3:32:0	1.300	768.000	115.00	9.000
24	3:35:0	1.350	778.000	115.00	10.000
25	3:38:0	1.400	785.000	115.00	7.000
26	3:41:0	1.450	789.000	115.00	4.000
27	3:44:0	1.500	793.000	115.00	4.000
28	3:45:0	1.517	53.000	115.00	-740.000
29	3:48:59	1.583	53.000	115.00	0.000
30	3:54:0	1.667	53.000	115.00	0.000
31	3:59:0	1.750	53.000	115.00	0.000
32	4: 3:59	1.833	55.000	115.00	2.000
33	4: 9: 0	1.917	57.000	115.00	2.000
34	4:14:0	2.000	59.000	115.00	2.000
35	4:18:59	2.083	61.000	115.00	2.000
36	4:24:0	2.167	63.000	115.00	2.000
37	4:29:0	2.250	66.000	115.00	3.000
38	4:33:59	2.333	68.000	115.00	2.000
39	4:39:0	2.417	69.000	115.00	1.000
40	4:44:0	2.500	70.000	115.00	1.000
41	4:47:0	2.550	349.000	115.00	279.000
42	4:50:0	2.600	539.000	115.00	190.000
43	4:53:0	2.650	592.000	115.00	53.000
44	4:56:0	2.700	616.000	115.00	24.000
45	4:59:0	2.750	635.000	115.00	19.000
46	5: 2: 0	2.800	652.000	115.00	17.000
47	5: 5: 0	2.850	662.000	115.00	10.000
48	5: 8: 0	2.900	672.000	115.00	10.000
49	5:11:0	2.950	680.000	115.00	8.000
50	5:14:0	3.000	687.000	115.00	7.000
51	5:17:0	3.050	695.000	115.00	8.000
52	5:20:0	3.100	701.000	115.00	6.000

COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 18/ 1/88

FIELD : WILBUR BITTLE  
 JOB # : 12532  
 DEPTH : 3865  
 TEST :

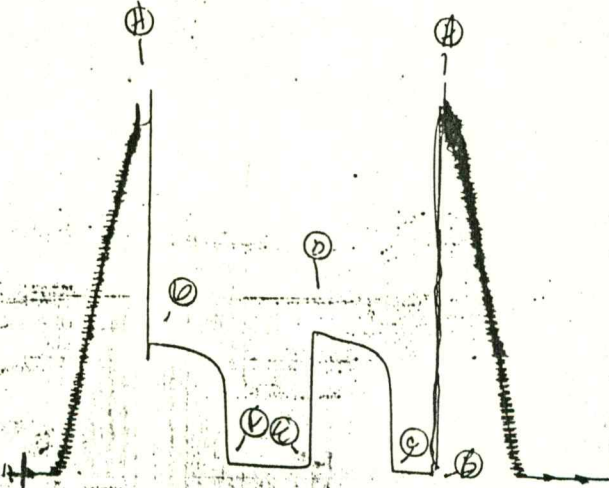
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	5:23: 0	3.150	704.000	115.00	3.000
54	5:26: 0	3.200	708.000	115.00	4.000
55	5:29: 0	3.250	711.000	115.00	3.000
56	5:32: 0	3.300	714.000	115.00	3.000
57	5:35: 0	3.350	717.000	115.00	3.000
58	5:38: 0	3.400	719.000	115.00	2.000
59	5:41: 0	3.450	721.000	115.00	2.000
60	5:44: 0	3.500	723.000	115.00	2.000

WESTERN TESTING CO. INC.

3549  
DST #1  
BITTEL #1

JK # 12532

I

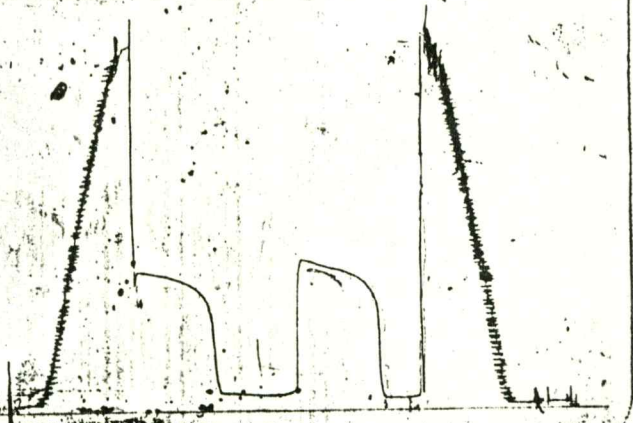


Inside Recorder

13550  
DST #1  
BITTEL #1

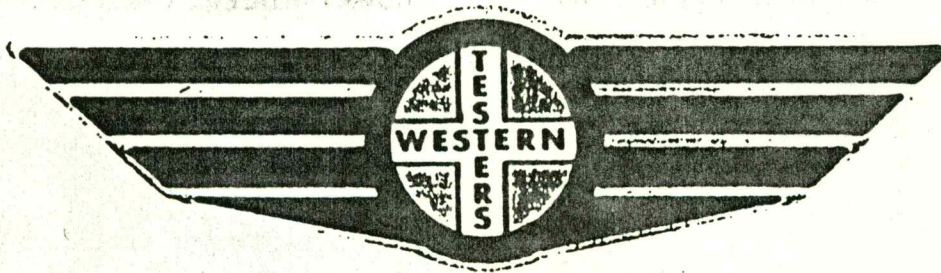
JK # 12532

O



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY ENERGY EXPLORATION, INC. LEASE & WELL NO. WILBUR BITTLE #1 SEC. 12 TWP. 10SRGE. 26WTEST NO. 2 DATE 1-19-88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1-19-88 TICKET : 12533  
CUSTOMER : ENERGY EXPLORATION INC. LEASE : WILBUR BITTLE  
WELL : #1 TEST: 2 GEOLOGIST : K. HOWARD  
ELEVATION : 2573 KB FORMATION : KANSAS CITY D  
SECTION : 12 TOWNSHIP : 10S  
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS  
GAUGE SN# : 3849 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 3865 TO : 3877 TOTAL DEPTH : 3877  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3860 SIZE : 6.75  
PACKER DEPTH : 3865 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMCIAL VISCOSITY : 57  
WEIGHT : 9.4 WATER LOSS (CC) : 11.2  
CHLORIDES (PPM) : 5000  
JARS-MAKE : NO 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 : 3845 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 12 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-FAIR BLOW BUILDING IN DIESEL TO 5" DEEP.  
BLOW COMMENT #2 : FINAL FLOW-VERY WEAK BLOW-1" DEEP.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 120 FT OF: MUDDY WATER  
25% MUD-75% WATER

CHLORIDES: 40000 PPM

Total Barrels Fluid = 1.68  
Total Fluid Prod Rate = 26.93 BFPD  
Indicated Wtr Rate = 21.10 BWPD

REMARK 1 :  
REMARK 2 : SCUM OF OIL ON TOP OF TOOL.  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 4:40 AM TIME STARTED OFF BOTTOM : 8:10 AM  
WELL TEMPERATURE : 115  
INITIAL HYDROSTATIC PRESSURE (A) 2023  
INITIAL FLOW PERIOD MIN: 30 (B) 37 PSI TO (C) : 37  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 573  
FINAL FLOW PERIOD MIN: 60 (E) 49 PSI TO (F) : 66  
FINAL CLOSED IN PERIOD MIN: 60 (G) 544  
FINAL HYDROSTATIC PRESSURE (H) 1982

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : ENERGY EXPLORATION INC.  
RIG : SHERIDAN-KANSAS  
FIELD : WILBUR BITTLE  
WELL : #1  
DATE : 1-19-88  
GAUGE NO : 3849

OPERATIONAL COMMENTS

SCUM OF OIL ON TOP OF TOOL.

COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 19/ 1/88

FIELD : WILBUR BITTLE  
 JOB # : 12533  
 DEPTH : 3877  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:40:0	0.000	37.000	115.00	0.000
2	4:44:59	0.083	37.000	115.00	0.000
3	4:50:0	0.167	37.000	115.00	0.000
4	4:55:0	0.250	37.000	115.00	0.000
5	4:59:59	0.333	37.000	115.00	0.000
6	5:5:0	0.417	37.000	115.00	0.000
7	5:10:0	0.500	37.000	115.00	0.000
8	5:13:0	0.550	261.000	115.00	224.000
9	5:16:0	0.600	393.000	115.00	132.000
10	5:19:0	0.650	438.000	115.00	45.000
11	5:22:0	0.700	466.000	115.00	28.000
12	5:25:0	0.750	489.000	115.00	23.000
13	5:28:0	0.800	505.000	115.00	16.000
14	5:31:0	0.850	516.000	115.00	11.000
15	5:34:0	0.900	524.000	115.00	8.000
16	5:37:0	0.950	533.000	115.00	9.000
17	5:40:0	1.000	540.000	115.00	7.000
18	5:43:0	1.050	546.000	115.00	6.000
19	5:46:0	1.100	553.000	115.00	7.000
20	5:49:0	1.150	556.000	115.00	3.000
21	5:52:0	1.200	561.000	115.00	5.000
22	5:55:0	1.250	564.000	115.00	3.000
23	5:58:0	1.300	567.000	115.00	3.000
24	6:1:0	1.350	569.000	115.00	2.000
25	6:4:0	1.400	571.000	115.00	2.000
26	6:7:0	1.450	572.000	115.00	1.000
27	6:10:0	1.500	573.000	115.00	1.000
28	6:11:0	1.517	49.000	115.00	-524.000
29	6:14:59	1.583	49.000	115.00	0.000
30	6:20:0	1.667	49.000	115.00	0.000
31	6:25:0	1.750	51.000	115.00	2.000
32	6:29:59	1.833	52.000	115.00	1.000
33	6:35:0	1.917	53.000	115.00	1.000
34	6:40:0	2.000	54.000	115.00	1.000
35	6:44:59	2.083	55.000	115.00	1.000
36	6:50:0	2.167	56.000	115.00	1.000
37	6:55:0	2.250	57.000	115.00	1.000
38	6:59:59	2.333	62.000	115.00	5.000
39	7:5:0	2.417	64.000	115.00	2.000
40	7:10:0	2.500	66.000	115.00	2.000
41	7:13:0	2.550	210.000	115.00	144.000
42	7:16:0	2.600	343.000	115.00	133.000
43	7:19:0	2.650	391.000	115.00	48.000
44	7:22:0	2.700	428.000	115.00	37.000
45	7:25:0	2.750	447.000	115.00	19.000
46	7:28:0	2.800	462.000	115.00	15.000
47	7:31:0	2.850	473.000	115.00	11.000
48	7:34:0	2.900	484.000	115.00	11.000
49	7:37:0	2.950	491.000	115.00	7.000
50	7:40:0	3.000	497.000	115.00	6.000
51	7:43:0	3.050	503.000	115.00	6.000
52	7:46:0	3.100	510.000	115.00	7.000

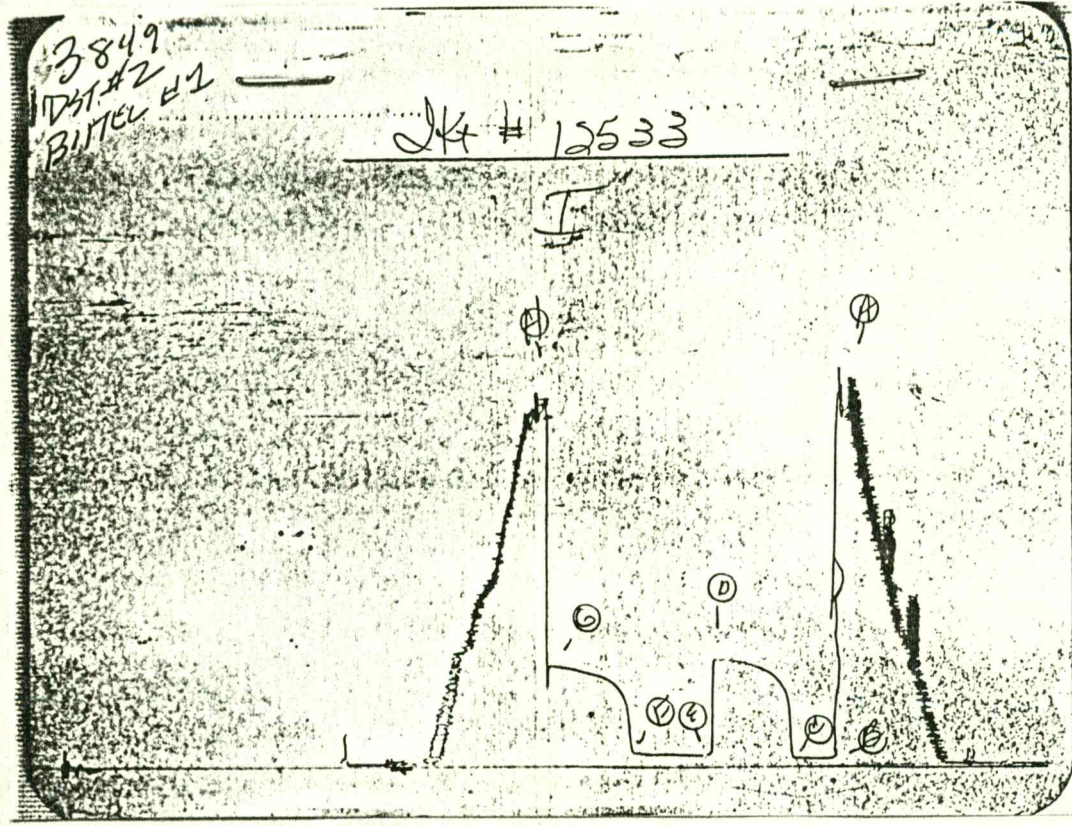
COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 19/ 1/88

FIELD : WILBUR BITTLE  
 JOB # : 12533  
 DEPTH : 3877  
 TEST :

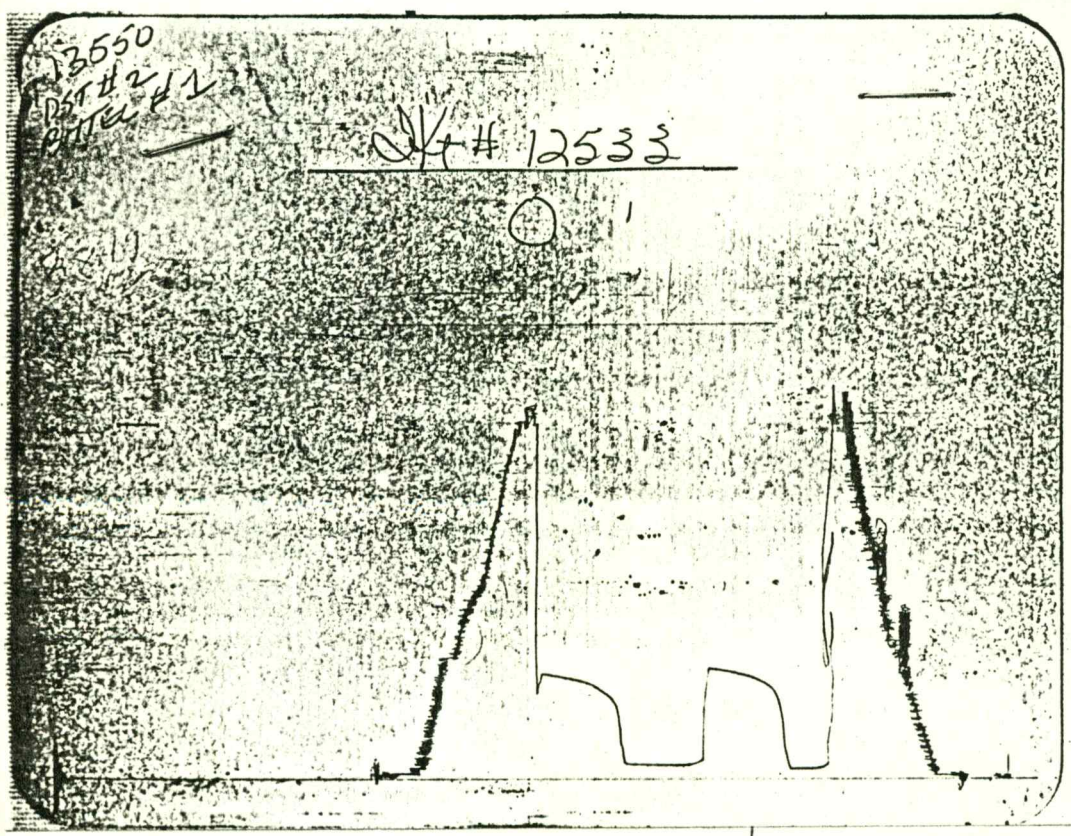
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	00 7:49: 0	00 3.150	515.000	115.00	5.000
54	00 7:52: 0	00 3.200	521.000	115.00	6.000
55	00 7:55: 0	00 3.250	527.000	115.00	6.000
56	00 7:58: 0	00 3.300	532.000	115.00	5.000
57	00 8: 1: 0	00 3.350	535.000	115.00	3.000
58	00 8: 4: 0	00 3.400	538.000	115.00	3.000
59	00 8: 7: 0	00 3.450	541.000	115.00	3.000
60	00 8:10: 0	00 3.500	544.000	115.00	3.000

WESTERN TESTING CO. INC.

000 01	00 011	000 001	000 000	000 000	000 000
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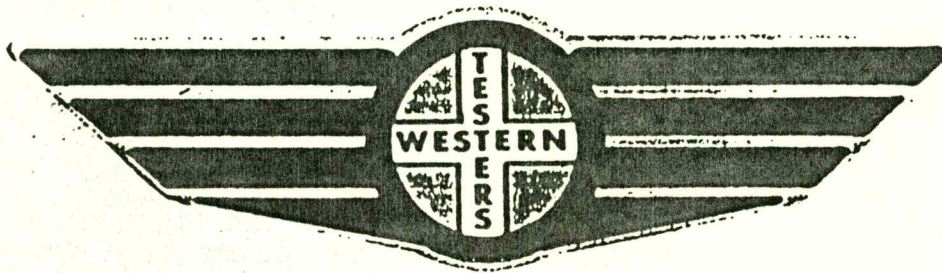


Inside Recorder



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1-19-88 TICKET : 12534  
CUSTOMER : ENERGY EXPLORATION INC. LEASE : WILBUR BITTLE  
WELL : #1 TEST: 3 GEOLOGIST : K. HOWARD  
ELEVATION : 2573 KB FORMATION : LANS E&F  
SECTION : 12 TOWNSHIP : 10S  
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS  
GAUGE SN# : 3849 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 3895 TO : 3917 TOTAL DEPTH : 3917

DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3890 SIZE : 6.75  
PACKER DEPTH : 3895 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMICAL VISCOSITY : 45  
WEIGHT : 9.5 WATER LOSS (CC) : 12  
CHLORIDES (PPM) : 6000  
JARS-MAKE : NO 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 : 3875 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 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 : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK DECREASING BLOW-1/2" IN DIESEL.  
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: MUD

Total Barrels Fluid = 0.42  
Total Fluid Prod Rate = 6.73 BFPD  
Indicated Wtr Rate = 0.67 BWPD

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

SET PACKER(S) : 10:38 PM                      TIME STARTED OFF BOTTOM : 2:08 AM  
WELL TEMPERATURE : 118  
INITIAL HYDROSTATIC PRESSURE                      (A) 2005  
INITIAL FLOW PERIOD                      MIN: 30                      (B) 29                      PSI TO (C) : 29  
INITIAL CLOSED IN PERIOD                      MIN: 60                      (D) 37  
FINAL FLOW PERIOD                      MIN: 60                      (E) 31                      PSI TO (F) : 31  
FINAL CLOSED IN PERIOD                      MIN: 60                      (G) 31  
FINAL HYDROSTATIC PRESSURE                      (H) 1967

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
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COMPANY : ENERGY EXPLORATION INC.  
RIG : SHERIDAN-KANSAS  
FIELD : WILBUR BITTLE  
WELL : #1  
DATE : 1-19-88  
GAUGE NO : 3849

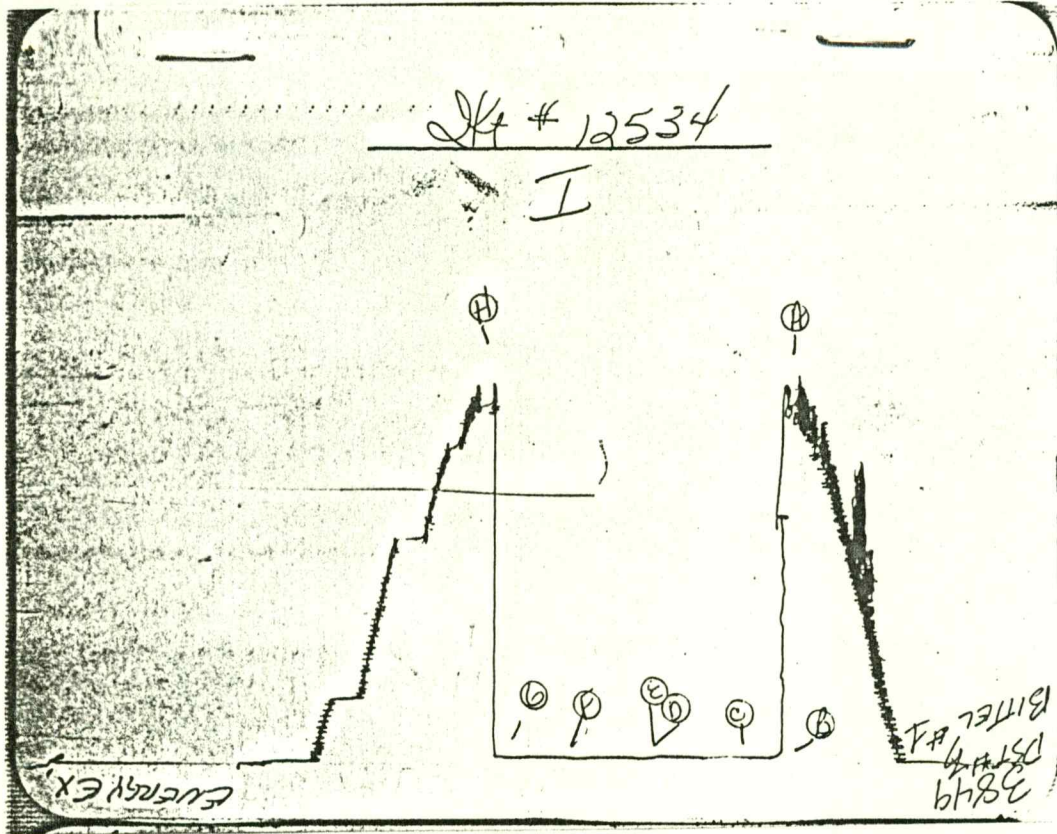
OPERATIONAL COMMENTS

COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 19/ 1/88

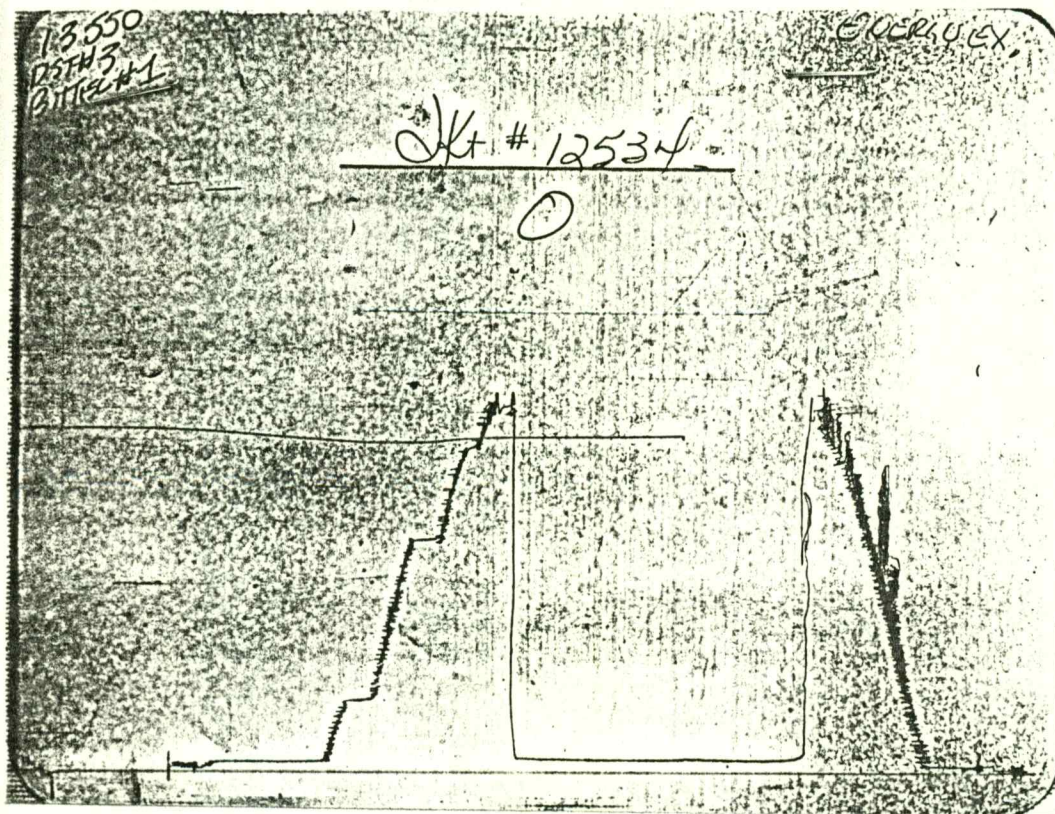
FIELD : WILBUR BITTLE  
 JOB # : 12534  
 DEPTH : 3917  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(i-1)
1	10:38: 0	0.000	29.000	118.00	0.000
2	10:42:59	0.083	29.000	118.00	0.000
3	10:48: 0	0.167	29.000	118.00	0.000
4	10:53: 0	0.250	29.000	118.00	0.000
5	10:57:59	0.333	29.000	118.00	0.000
6	11: 3: 0	0.417	29.000	118.00	0.000
7	11: 8: 0	0.500	29.000	118.00	0.000
8	11:11: 0	0.550	29.000	118.00	0.000
9	11:14: 0	0.600	29.000	118.00	0.000
10	11:17: 0	0.650	29.000	118.00	0.000
11	11:20: 0	0.700	29.000	118.00	0.000
12	11:23: 0	0.750	29.000	118.00	0.000
13	11:26: 0	0.800	29.000	118.00	0.000
14	11:29: 0	0.850	29.000	118.00	0.000
15	11:32: 0	0.900	29.000	118.00	0.000
16	11:35: 0	0.950	29.000	118.00	0.000
17	11:38: 0	1.000	30.000	118.00	1.000
18	11:41: 0	1.050	30.000	118.00	0.000
19	11:44: 0	1.100	31.000	118.00	1.000
20	11:47: 0	1.150	31.000	118.00	0.000
21	11:50: 0	1.200	32.000	118.00	1.000
22	11:53: 0	1.250	33.000	118.00	1.000
23	11:56: 0	1.300	33.000	118.00	0.000
24	11:59: 0	1.350	34.000	118.00	1.000
25	12: 2: 0	1.400	35.000	118.00	1.000
26	12: 5: 0	1.450	36.000	118.00	1.000
27	12: 8: 0	1.500	37.000	118.00	1.000
28	12: 9: 0	1.517	31.000	118.00	-6.000
29	12:12:59	1.583	31.000	118.00	0.000
30	12:18: 0	1.667	31.000	118.00	0.000
31	12:23: 0	1.750	31.000	118.00	0.000
32	12:27:59	1.833	31.000	118.00	0.000
33	12:33: 0	1.917	31.000	118.00	0.000
34	12:38: 0	2.000	31.000	118.00	0.000
35	12:42:59	2.083	31.000	118.00	0.000
36	12:48: 0	2.167	31.000	118.00	0.000
37	12:53: 0	2.250	31.000	118.00	0.000
38	12:57:59	2.333	31.000	118.00	0.000
39	13: 3: 0	2.417	31.000	118.00	0.000
40	13: 8: 0	2.500	31.000	118.00	0.000
41	13:11: 0	2.550	31.000	118.00	0.000
42	13:14: 0	2.600	31.000	118.00	0.000
43	13:17: 0	2.650	31.000	118.00	0.000
44	13:20: 0	2.700	31.000	118.00	0.000
45	13:23: 0	2.750	31.000	118.00	0.000
46	13:26: 0	2.800	31.000	118.00	0.000
47	13:29: 0	2.850	31.000	118.00	0.000
48	13:32: 0	2.900	31.000	118.00	0.000
49	13:35: 0	2.950	31.000	118.00	0.000
50	13:38: 0	3.000	31.000	118.00	0.000
51	13:41: 0	3.050	31.000	118.00	0.000
52	13:44: 0	3.100	31.000	118.00	0.000



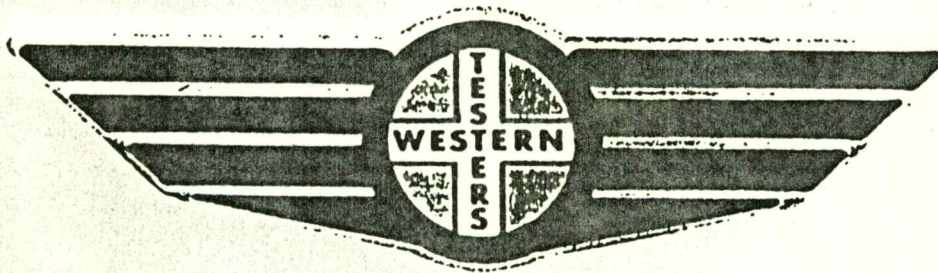


Inside Recorder



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1-20-88 TICKET : 12535  
CUSTOMER : ENERGY EXPLORATION INC. LEASE : WILBUR BITTLE  
WELL : #1 TEST: 4 GEOLOGIST : K. HOWARD  
ELEVATION : 2573 KB FORMATION : LANS-H-I-J  
SECTION : 12 TOWNSHIP : 10S  
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS  
GAUGE SN# : 3849 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 3952 TO : 4022 TOTAL DEPTH : 4022  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3847 SIZE : 6.75  
PACKER DEPTH : 3952 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMICAL VISCOSITY : 53  
WEIGHT : 9.6 WATER LOSS (CC) : 12  
CHLORIDES (PPM) : 8000  
JARS-MAKE : NO 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 : 3932 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 70 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 IN DIESEL-4 1/2" DEEP & BUILDING.  
BLOW COMMENT #2 : FINAL FLOW-FAIR BLOW IN DIESEL-7 1/2" DEEP & BUILDING.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 70 FT OF: OIL CUT MUD  
10% OIL-80% MUD-10% GAS  
CHLORIDES: 8000 PPM

Total Barrels Fluid = 0.98  
Total Fluid Prod Rate = 16.63 BFPD  
Indicated Oil Rate = 1.66 BOPD  
Indicated Wtr Rate = 1.33 BWPD  
Corrected Oil Rate = 7.94 BOPD  
Corrected Wtr Rate = 6.35 BWPD

REMARK 1 :  
REMARK 2 : RECOVERED 60 FEET OF GAS ABOVE FLUID.  
REMARK 3 : APPROXIMATELY 1 QUART OF FREE OIL ON TOP OF TOOL.  
REMARK 4 :

SET PACKER(S) : 12:56 AM TIME STARTED OFF BOTTOM : 4:24 AM  
WELL TEMPERATURE : 122  
INITIAL HYDROSTATIC PRESSURE (A) 1997  
INITIAL FLOW PERIOD MIN: 30 (B) 29 PSI TO (C) : 29  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 730  
FINAL FLOW PERIOD MIN: 55 (E) 43 PSI TO (F) : 43  
FINAL CLOSED IN PERIOD MIN: 63 (G) 651  
FINAL HYDROSTATIC PRESSURE (H) 1990

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report

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COMPANY : ENERGY EXPLORATION INC.  
RIG : SHERIDAN-KANSAS  
FIELD : WILBUR BITTLE  
WELL : #1  
DATE : 1-20-88  
GAUGE NO : 3849

OPERATIONAL COMMENTS

RECOVERED 60 FEET OF GAS ABOVE FLUID.  
APPROXIMATELY 1 QUART OF FREE OIL ON TOP OF TOOL.

COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 20/ 1/88

FIELD : WILBUR BITTLE  
 JOB # : 12535  
 DEPTH : 4022  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	12:56: 0	0.000	29.000	122.00	0.000
2	13: 0:59	0.083	29.000	122.00	0.000
3	13: 6: 0	0.167	29.000	122.00	0.000
4	13:11: 0	0.250	29.000	122.00	0.000
5	13:15:59	0.333	29.000	122.00	0.000
6	13:21: 0	0.417	29.000	122.00	0.000
7	13:26: 0	0.500	29.000	122.00	0.000
8	13:29: 0	0.550	30.000	122.00	1.000
9	13:32: 0	0.600	34.000	122.00	4.000
10	13:35: 0	0.650	43.000	122.00	9.000
11	13:38: 0	0.700	53.000	122.00	10.000
12	13:41: 0	0.750	69.000	122.00	16.000
13	13:44: 0	0.800	82.000	122.00	13.000
14	13:47: 0	0.850	100.000	122.00	18.000
15	13:50: 0	0.900	125.000	122.00	25.000
16	13:53: 0	0.950	164.000	122.00	39.000
17	13:56: 0	1.000	212.000	122.00	48.000
18	13:59: 0	1.050	277.000	122.00	65.000
19	14: 2: 0	1.100	340.000	122.00	63.000
20	14: 5: 0	1.150	431.000	122.00	91.000
21	14: 8: 0	1.200	501.000	122.00	70.000
22	14:11: 0	1.250	568.000	122.00	67.000
23	14:14: 0	1.300	619.000	122.00	51.000
24	14:17: 0	1.350	661.000	122.00	42.000
25	14:20: 0	1.400	688.000	122.00	27.000
26	14:23: 0	1.450	713.000	122.00	25.000
27	14:26: 0	1.500	730.000	122.00	17.000
28	14:27: 0	1.517	43.000	122.00	-687.000
29	14:30:59	1.583	43.000	122.00	0.000
30	14:36: 0	1.667	43.000	122.00	0.000
31	14:41: 0	1.750	43.000	122.00	0.000
32	14:45:59	1.833	43.000	122.00	0.000
33	14:51: 0	1.917	43.000	122.00	0.000
34	14:56: 0	2.000	43.000	122.00	0.000
35	15: 0:59	2.083	43.000	122.00	0.000
36	15: 6: 0	2.167	43.000	122.00	0.000
37	15:11: 0	2.250	43.000	122.00	0.000
38	15:15:59	2.333	43.000	122.00	0.000
39	15:21: 0	2.417	43.000	122.00	0.000
40	15:24: 0	2.467	46.000	122.00	3.000
41	15:27: 0	2.517	51.000	122.00	5.000
42	15:30: 0	2.567	57.000	122.00	6.000
43	15:33: 0	2.617	68.000	122.00	11.000
44	15:36: 0	2.667	79.000	122.00	11.000
45	15:39: 0	2.717	94.000	122.00	15.000
46	15:42: 0	2.767	112.000	122.00	18.000
47	15:45: 0	2.817	136.000	122.00	24.000
48	15:48: 0	2.867	166.000	122.00	30.000
49	15:51: 0	2.917	203.000	122.00	37.000
50	15:54: 0	2.967	245.000	122.00	42.000
51	15:57: 0	3.017	296.000	122.00	51.000
52	16: 0: 0	3.067	351.000	122.00	55.000

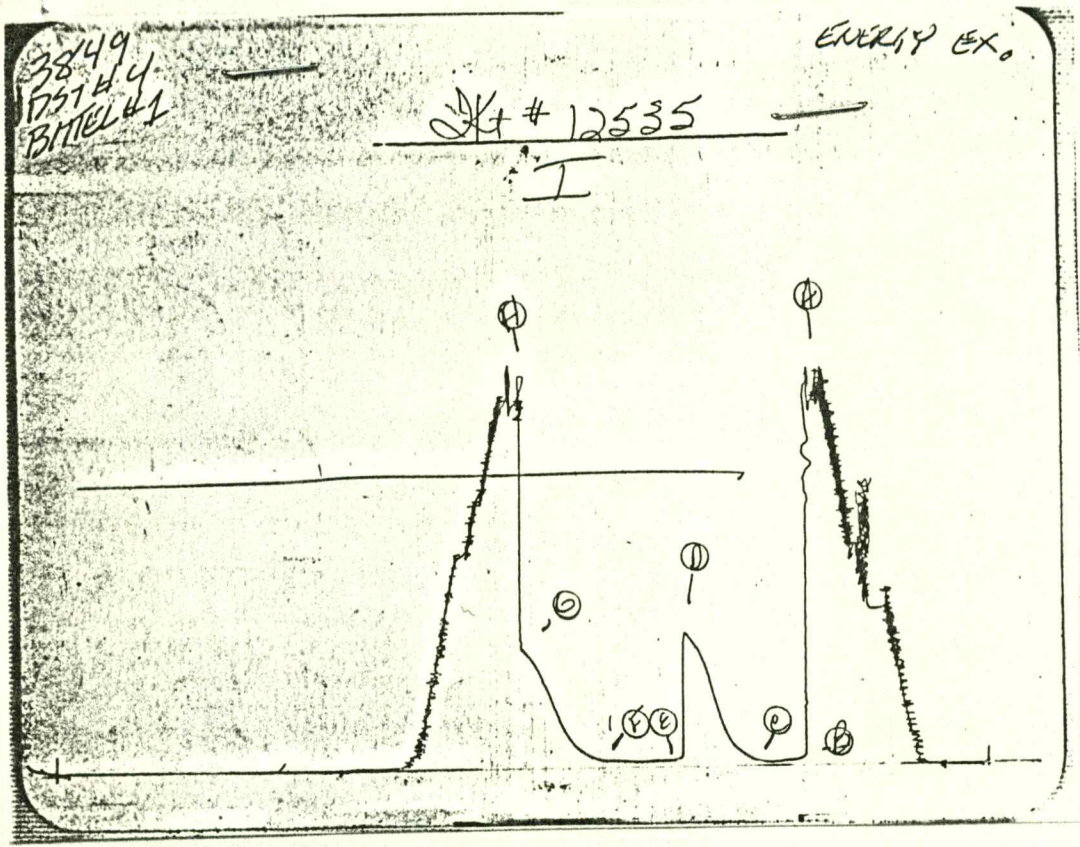
COMPANY : ENERGY EXPLORATION INC.  
 WELL : #1  
 GAUGE # : 3849  
 DATE : 20/ 1/88

FIELD : WILBUR BITTLE  
 JOB # : 12535  
 DEPTH : 4022  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	16: 3: 0	3.117	406.000	122.00	55.000
54	16: 6: 0	3.167	460.000	122.00	54.000
55	16: 9: 0	3.217	512.000	122.00	52.000
56	16:12: 0	3.267	552.000	122.00	40.000
57	16:15: 0	3.317	588.000	122.00	36.000
58	16:18: 0	3.367	616.000	122.00	28.000
59	16:21: 0	3.417	636.000	122.00	20.000
60	16:24: 0	3.467	651.000	122.00	15.000

WESTERN TESTING CO. INC.

000.00	00.000	000.000	000.000	000.000	000.000
000.01	00.001	000.001	000.000	000.000	000.000
000.02	00.002	000.002	000.000	000.000	000.000
000.03	00.003	000.003	000.000	000.000	000.000
000.04	00.004	000.004	000.000	000.000	000.000
000.05	00.005	000.005	000.000	000.000	000.000
000.06	00.006	000.006	000.000	000.000	000.000
000.07	00.007	000.007	000.000	000.000	000.000
000.08	00.008	000.008	000.000	000.000	000.000
000.09	00.009	000.009	000.000	000.000	000.000
000.10	00.010	000.010	000.000	000.000	000.000
000.11	00.011	000.011	000.000	000.000	000.000
000.12	00.012	000.012	000.000	000.000	000.000
000.13	00.013	000.013	000.000	000.000	000.000
000.14	00.014	000.014	000.000	000.000	000.000
000.15	00.015	000.015	000.000	000.000	000.000
000.16	00.016	000.016	000.000	000.000	000.000
000.17	00.017	000.017	000.000	000.000	000.000
000.18	00.018	000.018	000.000	000.000	000.000
000.19	00.019	000.019	000.000	000.000	000.000
000.20	00.020	000.020	000.000	000.000	000.000
000.21	00.021	000.021	000.000	000.000	000.000
000.22	00.022	000.022	000.000	000.000	000.000
000.23	00.023	000.023	000.000	000.000	000.000
000.24	00.024	000.024	000.000	000.000	000.000
000.25	00.025	000.025	000.000	000.000	000.000
000.26	00.026	000.026	000.000	000.000	000.000
000.27	00.027	000.027	000.000	000.000	000.000
000.28	00.028	000.028	000.000	000.000	000.000
000.29	00.029	000.029	000.000	000.000	000.000
000.30	00.030	000.030	000.000	000.000	000.000
000.31	00.031	000.031	000.000	000.000	000.000
000.32	00.032	000.032	000.000	000.000	000.000
000.33	00.033	000.033	000.000	000.000	000.000
000.34	00.034	000.034	000.000	000.000	000.000
000.35	00.035	000.035	000.000	000.000	000.000
000.36	00.036	000.036	000.000	000.000	000.000
000.37	00.037	000.037	000.000	000.000	000.000
000.38	00.038	000.038	000.000	000.000	000.000
000.39	00.039	000.039	000.000	000.000	000.000
000.40	00.040	000.040	000.000	000.000	000.000
000.41	00.041	000.041	000.000	000.000	000.000
000.42	00.042	000.042	000.000	000.000	000.000
000.43	00.043	000.043	000.000	000.000	000.000
000.44	00.044	000.044	000.000	000.000	000.000
000.45	00.045	000.045	000.000	000.000	000.000
000.46	00.046	000.046	000.000	000.000	000.000
000.47	00.047	000.047	000.000	000.000	000.000
000.48	00.048	000.048	000.000	000.000	000.000
000.49	00.049	000.049	000.000	000.000	000.000
000.50	00.050	000.050	000.000	000.000	000.000
000.51	00.051	000.051	000.000	000.000	000.000
000.52	00.052	000.052	000.000	000.000	000.000
000.53	00.053	000.053	000.000	000.000	000.000
000.54	00.054	000.054	000.000	000.000	000.000
000.55	00.055	000.055	000.000	000.000	000.000
000.56	00.056	000.056	000.000	000.000	000.000
000.57	00.057	000.057	000.000	000.000	000.000
000.58	00.058	000.058	000.000	000.000	000.000
000.59	00.059	000.059	000.000	000.000	000.000
000.60	00.060	000.060	000.000	000.000	000.000



Inside Recorder

