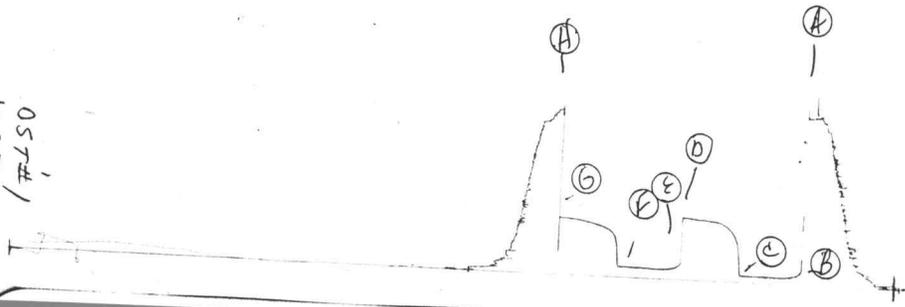


JK # 12113  
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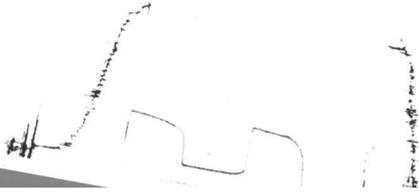
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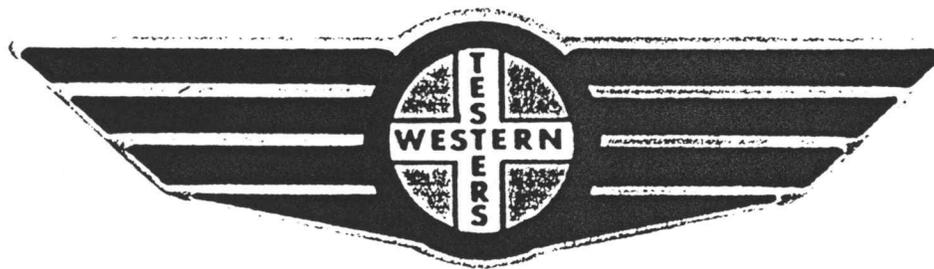
JK #12113

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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 : 8-11-87 TICKET : 12113  
CUSTOMER : DUNNE EQUITIES INC. LEASE : HAWK  
WELL : #16 TEST: 1 GEOLOGIST : D. SEEBER  
ELEVATION : 1442 FORMATION : LANSING  
SECTION : 4 TOWNSHIP : 23S  
RANGE : 4E COUNTY : BUTLER STATE : KANSAS  
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 1849 TO : 1869 TOTAL DEPTH : 1869  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 1844 SIZE : 6.63  
PACKER DEPTH : 1849 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG #4  
MUD TYPE : CHEMICAL VISCOSITY : 47  
WEIGHT : 9.3 WATER LOSS (CC) : 12  
CHLORIDES (PPM) : 2800  
JARS-MAKE : - SERIAL NUMBER : -  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 240 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1589 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 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 1/2" BLOW THROUGHOUT.  
BLOW COMMENT #2 : FINAL FLOW-WEAK 1/4" BLOW THROUGHOUT.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 70 FT OF: 50% MUD-50% WATER  
WITH SCUM OF OIL IN GRINDOUT.  
CHLORIDES: 32000 PPM

Total Barrels Fluid = 0.33  
Total Fluid Prod Rate = 5.27 BFPD  
Indicated Wtr Rate = 3.01 BWPD

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

SET PACKER(S) : 11:45 PM  
WELL TEMPERATURE : 97  
INITIAL HYDROSTATIC PRESSURE (A) 959  
INITIAL FLOW PERIOD MIN: 45 (B) 24 PSI TO (C) : 24  
INITIAL CLOSED IN PERIOD MIN: 45 (D) 346  
FINAL FLOW PERIOD MIN: 45 (E) 45 PSI TO (F) : 48  
FINAL CLOSED IN PERIOD MIN: 45 (G) 317  
FINAL HYDROSTATIC PRESSURE (H) 947

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : DUNNE EQUITIES INC.  
RIG : BUTLER-KANSAS  
FIELD : HAWK  
WELL : #16  
DATE : 8-11-87  
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : DUNNE EQUITIES INC.  
 WELL : #16  
 GAUGE # : 10270  
 DATE : 11/ 8/87

FIELD : HAWK  
 JOB # : 12113  
 DEPTH : 1869'  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:45: 0	0.000	24.000	97.00	0.000
2	11:49:59	0.083	24.000	97.00	0.000
3	11:55: 0	0.167	24.000	97.00	0.000
4	12: 0: 0	0.250	24.000	97.00	0.000
5	12: 4:59	0.333	24.000	97.00	0.000
6	12:10: 0	0.417	24.000	97.00	0.000
7	12:15: 0	0.500	24.000	97.00	0.000
8	12:19:59	0.583	24.000	97.00	0.000
9	12:25: 0	0.667	24.000	97.00	0.000
10	12:30: 0	0.750	24.000	97.00	0.000
11	12:33: 0	0.800	205.000	97.00	181.000
12	12:36: 0	0.850	259.000	97.00	54.000
13	12:39: 0	0.900	290.000	97.00	31.000
14	12:42: 0	0.950	306.000	97.00	16.000
15	12:45: 0	1.000	322.000	97.00	16.000
16	12:48: 0	1.050	328.000	97.00	6.000
17	12:51: 0	1.100	330.000	97.00	2.000
18	12:54: 0	1.150	333.000	97.00	3.000
19	12:57: 0	1.200	335.000	97.00	2.000
20	13: 0: 0	1.250	338.000	97.00	3.000
21	13: 3: 0	1.300	340.000	97.00	2.000
22	13: 6: 0	1.350	342.000	97.00	2.000
23	13: 9: 0	1.400	344.000	97.00	2.000
24	13:12: 0	1.450	345.000	97.00	1.000
25	13:15: 0	1.500	346.000	97.00	1.000
26	13:16: 0	1.517	45.000	97.00	-301.000
27	13:19:59	1.583	45.000	97.00	0.000
28	13:25: 0	1.667	45.000	97.00	0.000
29	13:30: 0	1.750	45.000	97.00	0.000
30	13:34:59	1.833	45.000	97.00	0.000
31	13:40: 0	1.917	46.000	97.00	1.000
32	13:45: 0	2.000	47.000	97.00	1.000
33	13:49:59	2.083	48.000	97.00	1.000
34	13:55: 0	2.167	48.000	97.00	0.000
35	14: 0: 0	2.250	48.000	97.00	0.000
36	14: 3: 0	2.300	215.000	97.00	167.000
37	14: 6: 0	2.350	250.000	97.00	35.000
38	14: 9: 0	2.400	263.000	97.00	13.000
39	14:12: 0	2.450	274.000	97.00	11.000
40	14:15: 0	2.500	282.000	97.00	8.000
41	14:18: 0	2.550	288.000	97.00	6.000
42	14:21: 0	2.600	293.000	97.00	5.000
43	14:24: 0	2.650	299.000	97.00	6.000
44	14:27: 0	2.700	304.000	97.00	5.000
45	14:30: 0	2.750	308.000	97.00	4.000
46	14:33: 0	2.800	311.000	97.00	3.000
47	14:36: 0	2.850	314.000	97.00	3.000
48	14:39: 0	2.900	315.000	97.00	1.000
49	14:42: 0	2.950	316.000	97.00	1.000
50	14:45: 0	3.000	317.000	97.00	1.000

SK # 12114

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OST #  
10270



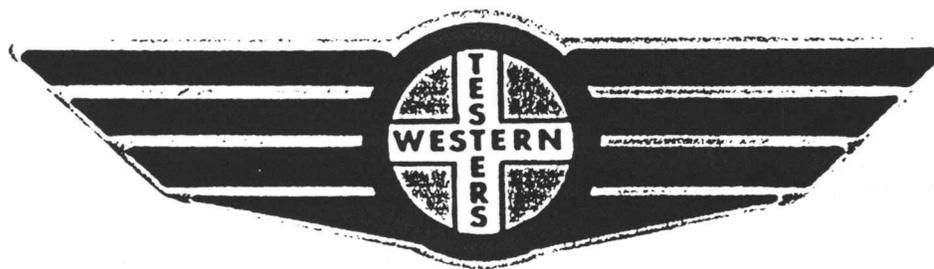
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OST #  
13268



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

DUNNE EQUITIES, INC.

LEASE & WELL NO.

HAWK #16

SEC. 4

TWP. 23S

RGE. 4E

TEST NO. 2

DATE

8/12/87



RECOVERED : 450 FT OF: MUD

Total Barrels Fluid = 4.07

Total Fluid Prod Rate = 0.00 BFPD

REMARK 1 : MISRUN: NO PRESSURES AVAILABLE.

REMARK 2 : HIT BRIDGE AT APPROXIMATELY 1730 FEET-WOULDN'T GO TO BOTTOM.

REMARK 3 :

REMARK 4 :

SET PACKER(S) :

TIME STARTED OFF BOTTOM :

WELL TEMPERATURE : 0

INITIAL HYDROSTATIC PRESSURE

(A) 0

INITIAL FLOW PERIOD MIN: 0

(B) 0

PSI TO (C) : 0

INITIAL CLOSED IN PERIOD MIN: 0

(D) 0

FINAL FLOW PERIOD MIN: 0

(E) 0

PSI TO (F) : 0

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

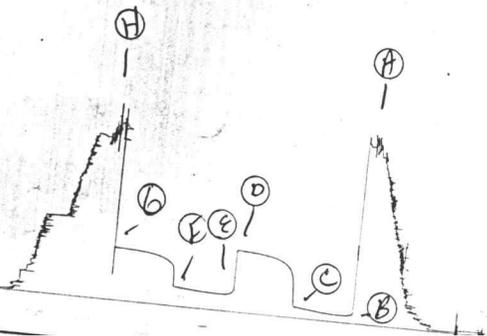
FINAL HYDROSTATIC PRESSURE

(H) 0

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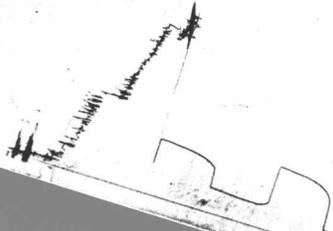
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Site # 12115

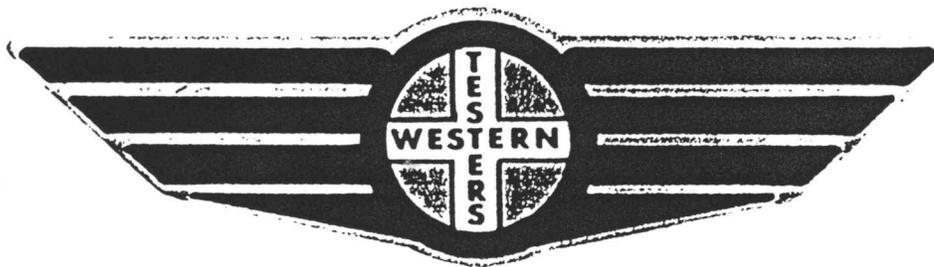
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10-29

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

DUNNE EQUITIES, INC.

LEASE & WELL NO. HAWK #16

SEC. 4 TWP. 23S RGE. 4E TEST NO. 3 DATE 8/13/87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 8-13-87  
CUSTOMER : DUNNE EQUITIES INC.  
WELL : #16 TEST: 3  
ELEVATION : 1442  
SECTION : 4  
RANGE : 4E COUNTY : BUTLER  
GAUGE SN# : 10270 RANGE : 4150  
TICKET : 12115  
LEASE : HAWK  
GEOLOGIST : D. SEEBER  
FORMATION : KANSAS CITY  
TOWNSHIP : 23S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 2023 TO : 2045 TOTAL DEPTH : 2045  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2018 SIZE : 6.63  
PACKER DEPTH : 2023 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG #4  
MUD TYPE : CHEMICAL VISCOSITY : 41  
WEIGHT : 9.2 WATER LOSS (CC) : 11.6  
CHLORIDES (PPM) : 1900  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 240 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1763 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 1/2" TO 1" BLOW THROUGHOUT.  
BLOW COMMENT #2 : FINAL FLOW-WEAK 1/2" BLOW THROUGHOUT.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 65 FT OF: MUDDY WATER / WITH SHOW OF OIL  
RECOVERED : 120 FT OF: MUDDY WATER

CHLORIDES: 57000 PPM

Total Barrels Fluid = 0.87  
Total Fluid Prod Rate = 13.92 BFPD  
Indicated Wtr Rate = 6.92 BWPD

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

SET PACKER(S) : 5:35 AM  
WELL TEMPERATURE : 99  
INITIAL HYDROSTATIC PRESSURE (A) 1022  
INITIAL FLOW PERIOD MIN: 45 (B) 35 PSI TO (C) : 58  
INITIAL CLOSED IN PERIOD MIN: 45 (D) 355  
FINAL FLOW PERIOD MIN: 45 (E) 92 PSI TO (F) : 106  
FINAL CLOSED IN PERIOD MIN: 45 (G) 303  
FINAL HYDROSTATIC PRESSURE (H) 1018

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : DUNNE EQUITIES INC.  
RIG : BUTLER-KANSAS  
FIELD : HAWK  
WELL : #16  
DATE : 8-13-87  
GAUGE NO : 10270

OPERATIONAL COMMENTS

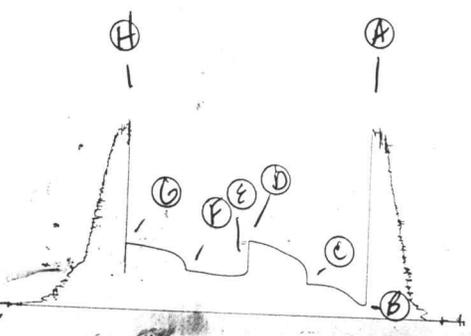
COMPANY : DUNNE EQUITIES INC.  
 WELL : #16  
 GAUGE # : 10270  
 DATE : 13/ 8/87

FIELD : HAWK  
 JOB # : 12115  
 DEPTH : 2045  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	5:35: 0	0.000	35.000	99.00	0.000
2	5:39:59	0.083	35.000	99.00	0.000
3	5:45: 0	0.167	35.000	99.00	0.000
4	5:50: 0	0.250	35.000	99.00	0.000
5	5:54:59	0.333	37.000	99.00	2.000
6	6: 0: 0	0.417	41.000	99.00	4.000
7	6: 5: 0	0.500	44.000	99.00	3.000
8	6: 9:59	0.583	47.000	99.00	3.000
9	6:15: 0	0.667	53.000	99.00	6.000
10	6:20: 0	0.750	58.000	99.00	5.000
11	6:23: 0	0.800	243.000	99.00	185.000
12	6:26: 0	0.850	281.000	99.00	38.000
13	6:29: 0	0.900	302.000	99.00	21.000
14	6:32: 0	0.950	315.000	99.00	13.000
15	6:35: 0	1.000	324.000	99.00	9.000
16	6:38: 0	1.050	333.000	99.00	9.000
17	6:41: 0	1.100	336.000	99.00	3.000
18	6:44: 0	1.150	341.000	99.00	5.000
19	6:47: 0	1.200	345.000	99.00	4.000
20	6:50: 0	1.250	348.000	99.00	3.000
21	6:53: 0	1.300	350.000	99.00	2.000
22	6:56: 0	1.350	352.000	99.00	2.000
23	6:59: 0	1.400	353.000	99.00	1.000
24	7: 2: 0	1.450	354.000	99.00	1.000
25	7: 5: 0	1.500	355.000	99.00	1.000
26	7: 6: 0	1.517	92.000	99.00	-263.000
27	7: 9:59	1.583	92.000	99.00	0.000
28	7:15: 0	1.667	92.000	99.00	0.000
29	7:20: 0	1.750	92.000	99.00	0.000
30	7:24:59	1.833	92.000	99.00	0.000
31	7:30: 0	1.917	95.000	99.00	3.000
32	7:35: 0	2.000	97.000	99.00	2.000
33	7:39:59	2.083	100.000	99.00	3.000
34	7:45: 0	2.167	104.000	99.00	4.000
35	7:50: 0	2.250	106.000	99.00	2.000
36	7:53: 0	2.300	237.000	99.00	131.000
37	7:56: 0	2.350	256.000	99.00	19.000
38	7:59: 0	2.400	267.000	99.00	11.000
39	8: 2: 0	2.450	275.000	99.00	8.000
40	8: 5: 0	2.500	282.000	99.00	7.000
41	8: 8: 0	2.550	286.000	99.00	4.000
42	8:11: 0	2.600	291.000	99.00	5.000
43	8:14: 0	2.650	293.000	99.00	2.000
44	8:17: 0	2.700	296.000	99.00	3.000
45	8:20: 0	2.750	299.000	99.00	3.000
46	8:23: 0	2.800	300.000	99.00	1.000
47	8:26: 0	2.850	301.000	99.00	1.000
48	8:29: 0	2.900	302.000	99.00	1.000
49	8:32: 0	2.950	303.000	99.00	1.000
50	8:35: 0	3.000	303.000	99.00	0.000

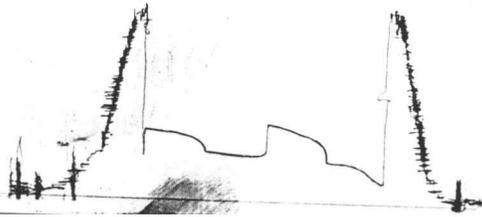
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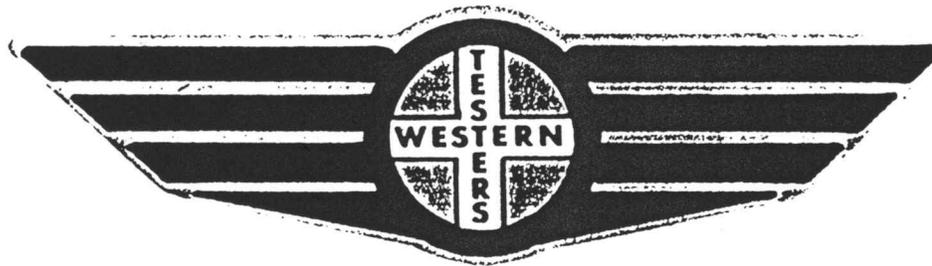


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12116



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

DUNNE EQUITIES, INC.

LEASE & WELL NO.

HAWK #16

SEC. 4

TWP. 23S

RGE. 4E

TEST NO. 4

DATE

8/13/87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 8-13-87 TICKET : 12116  
CUSTOMER : DUNNE EQUITIES INC. LEASE : HAWK  
WELL : #16 TEST: 4 GEOLOGIST : D. SEEBER  
ELEVATION : 1442 FORMATION : KANSAS CITY  
SECTION : 4 TOWNSHIP : 23S  
RANGE : 4E COUNTY : BUTLER STATE : KANSAS  
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 2092 TO : 2140 TOTAL DEPTH : 2140  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2087 SIZE : 6.63  
PACKER DEPTH : 2092 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG #4  
MUD TYPE : CHEMICAL VISCOSITY : 47  
WEIGHT : 9.1 WATER LOSS (CC) : 10.4  
CHLORIDES (PPM) : 2200  
JARS-MAKE : - SERIAL NUMBER : -  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 240 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1832 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 48 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-BOTTOM OF BUCKET IN 8 MINUTES.  
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW THROUGHOUT.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 90 FT OF: SLIGHTLY OIL & GAS CUT MUD  
1% OIL-6% GAS-13% WATER-80% MUD  
RECOVERED : 120 FT OF: SLIGHTLY OIL & GAS CUT WATERY MUD  
1% OIL-14% GAS-30% WATER-55% MUD  
RECOVERED : 120 FT OF: SLIGHTLY OIL & GAS CUT MUDDY WATER  
1% OIL-11% GAS-38% MUD-50% WATER  
RECOVERED : 120 FT OF: MUDDY WATER / WITH SCUM OF OIL IN GRINDOUT

CHLORIDES: 68000 PPM

Total Barrels Fluid = 4.07  
Total Fluid Prod Rate = 65.18 BFPD  
Indicated Oil Rate = 0.36 BOPD  
Indicated Wtr Rate = 24.19 BWPD

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

SET PACKER(S) : 9:15 PM

TIME STARTED OFF BOTTOM : 12:15 AM

WELL TEMPERATURE : 100

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 45 (A) 1039

INITIAL CLOSED IN PERIOD MIN: 45 (B) 75 PSI TO (C) : 187

FINAL FLOW PERIOD MIN: 45 (D) 425

FINAL CLOSED IN PERIOD MIN: 45 (E) 221 PSI TO (F) : 241

FINAL HYDROSTATIC PRESSURE (G) 387

(H) 1039

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : DUNNE EQUITIES INC.  
RIG : BUTLER-KANSAS  
FIELD : HAWK  
WELL : #16  
DATE : 8-13-87  
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : DUNNE EQUITIES INC.

WELL : #16

GAUGE # : 10270

DATE : 13/ 8/87

FIELD : HAWK

JOB # : 12116

DEPTH : 2140

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:15: 0	0.000	75.000	100.00	0.000
2	9:19:59	0.083	81.000	100.00	6.000
3	9:25: 0	0.167	110.000	100.00	29.000
4	9:30: 0	0.250	139.000	100.00	29.000
5	9:34:59	0.333	159.000	100.00	20.000
6	9:40: 0	0.417	174.000	100.00	15.000
7	9:45: 0	0.500	181.000	100.00	7.000
8	9:49:59	0.583	185.000	100.00	4.000
9	9:55: 0	0.667	186.000	100.00	1.000
10	10: 0: 0	0.750	187.000	100.00	1.000
11	10: 3: 0	0.800	286.000	100.00	99.000
12	10: 6: 0	0.850	314.000	100.00	28.000
13	10: 9: 0	0.900	329.000	100.00	15.000
14	10:12: 0	0.950	341.000	100.00	12.000
15	10:15: 0	1.000	350.000	100.00	9.000
16	10:18: 0	1.050	359.000	100.00	9.000
17	10:21: 0	1.100	368.000	100.00	9.000
18	10:24: 0	1.150	382.000	100.00	14.000
19	10:27: 0	1.200	391.000	100.00	9.000
20	10:30: 0	1.250	398.000	100.00	7.000
21	10:33: 0	1.300	407.000	100.00	9.000
22	10:36: 0	1.350	413.000	100.00	6.000
23	10:39: 0	1.400	418.000	100.00	5.000
24	10:42: 0	1.450	421.000	100.00	3.000
25	10:45: 0	1.500	425.000	100.00	4.000
26	10:46: 0	1.517	221.000	100.00	-204.000
27	10:49:59	1.583	221.000	100.00	0.000
28	10:55: 0	1.667	221.000	100.00	0.000
29	11: 0: 0	1.750	221.000	100.00	0.000
30	11: 4:59	1.833	221.000	100.00	0.000
31	11:10: 0	1.917	225.000	100.00	4.000
32	11:15: 0	2.000	229.000	100.00	4.000
33	11:19:59	2.083	235.000	100.00	6.000
34	11:25: 0	2.167	240.000	100.00	5.000
35	11:30: 0	2.250	241.000	100.00	1.000
36	11:33: 0	2.300	302.000	100.00	61.000
37	11:36: 0	2.350	322.000	100.00	20.000
38	11:39: 0	2.400	335.000	100.00	13.000
39	11:42: 0	2.450	344.000	100.00	9.000
40	11:45: 0	2.500	348.000	100.00	4.000
41	11:48: 0	2.550	353.000	100.00	5.000
42	11:51: 0	2.600	359.000	100.00	6.000
43	11:54: 0	2.650	362.000	100.00	3.000
44	11:57: 0	2.700	366.000	100.00	4.000
45	12: 0: 0	2.750	372.000	100.00	6.000
46	12: 3: 0	2.800	376.000	100.00	4.000
47	12: 6: 0	2.850	378.000	100.00	2.000
48	12: 9: 0	2.900	381.000	100.00	3.000
49	12:12: 0	2.950	384.000	100.00	3.000
50	12:15: 0	3.000	387.000	100.00	3.000