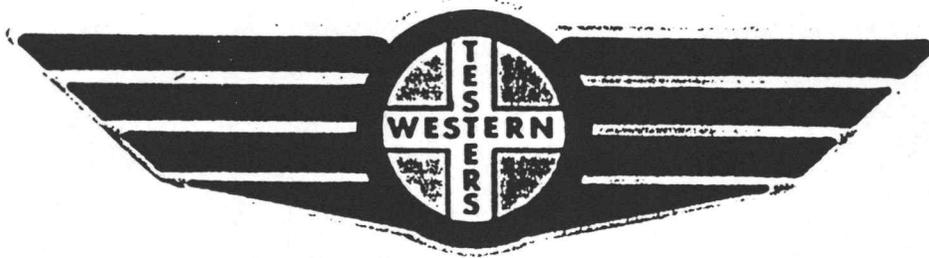


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AINSWORTH OPERATING COMPANY LEASE & WELL NO. SLEEPER #2 SEC. 8 TWP. 22S RGE. 11W TEST NO. 1 DATE 3/5/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-5-88 TICKET : 13505
CUSTOMER : AINSWORTH OPERATING COMPANY LEASE : SLEEPER
WELL : #2 TEST: 1 GEOLOGIST : T. HIEDY
ELEVATION : 1766 GL FORMATION : LANSING
SECTION : 8 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 4376 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3215 TO : 3235 TOTAL DEPTH : 3235
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3210 SIZE : 6.63
PACKER DEPTH : 3215 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG 7
MUD TYPE : STARCH VISCOSITY : 40
WEIGHT : 9.8 WATER LOSS (CC) : 8.8
CHLORIDES (PPM) : 50000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 310 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2881 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 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 FH

BLOW COMMENT #1 :
BLOW COMMENT #2 : WEAK BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: GAS CUT MUD (SPECKS OF OIL)

Total Barrels Fluid = 0.21
Total Fluid Prod Rate = 4.08 BFPD
Indicated Wtr Rate = 0.41 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 60 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	4:10 AM	TIME STARTED OFF BOTTOM :	7:10 AM
WELL TEMPERATURE :	104		
INITIAL HYDROSTATIC PRESSURE		(A)	1696
INITIAL FLOW PERIOD MIN:	30	(B)	41 PSI TO (C) : 41
INITIAL CLOSED IN PERIOD MIN:	45	(D)	1025
FINAL FLOW PERIOD MIN:	45	(E)	50 PSI TO (F) : 50
FINAL CLOSED IN PERIOD MIN:	63	(G)	1126
FINAL HYDROSTATIC PRESSURE		(H)	1696

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AINSWORTH OPERATING COMPANY
RIG : STAFFORD-KANSAS
FIELD : SLEEPER
WELL : #2
DATE : 3-5-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

RECOVERED 60 FEET OF GAS ABOVE FLUID.

COMPANY : AINSWORTH OPERATING COMPANY
 WELL : #2
 GAUGE # : 4376
 DATE : 5/ 3/88

FIELD : SLEEPER
 JOB # : 13505
 DEPTH : 3235
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:10:0	0.000	41.000	104.00	0.000
2	4:14:59	0.083	41.000	104.00	0.000
3	4:20:0	0.167	41.000	104.00	0.000
4	4:25:0	0.250	41.000	104.00	0.000
5	4:29:59	0.333	41.000	104.00	0.000
6	4:35:0	0.417	41.000	104.00	0.000
7	4:40:0	0.500	41.000	104.00	0.000
8	4:43:0	0.550	41.000	104.00	0.000
9	4:46:0	0.600	48.000	104.00	7.000
10	4:49:0	0.650	55.000	104.00	7.000
11	4:52:0	0.700	70.000	104.00	15.000
12	4:55:0	0.750	98.000	104.00	28.000
13	4:58:0	0.800	144.000	104.00	46.000
14	5: 1:0	0.850	234.000	104.00	90.000
15	5: 4:0	0.900	356.000	104.00	122.000
16	5: 7:0	0.950	524.000	104.00	168.000
17	5:10:0	1.000	662.000	104.00	138.000
18	5:13:0	1.050	779.000	104.00	117.000
19	5:16:0	1.100	872.000	104.00	93.000
20	5:19:0	1.150	939.000	104.00	67.000
21	5:22:0	1.200	994.000	104.00	55.000
22	5:25:0	1.250	1025.000	104.00	31.000
23	5:26:0	1.267	50.000	104.00	-975.000
24	5:29:59	1.333	50.000	104.00	0.000
25	5:35:0	1.417	50.000	104.00	0.000
26	5:40:0	1.500	50.000	104.00	0.000
27	5:44:59	1.583	50.000	104.00	0.000
28	5:50:0	1.667	50.000	104.00	0.000
29	5:55:0	1.750	50.000	104.00	0.000
30	5:59:59	1.833	50.000	104.00	0.000
31	6: 5:0	1.917	50.000	104.00	0.000
32	6:10:0	2.000	50.000	104.00	0.000
33	6:13:0	2.050	58.000	104.00	8.000
34	6:16:0	2.100	74.000	104.00	16.000
35	6:19:0	2.150	110.000	104.00	36.000
36	6:22:0	2.200	186.000	104.00	76.000
37	6:25:0	2.250	313.000	104.00	127.000
38	6:28:0	2.300	439.000	104.00	126.000
39	6:31:0	2.350	559.000	104.00	120.000
40	6:34:0	2.400	667.000	104.00	108.000
41	6:37:0	2.450	755.000	104.00	88.000
42	6:40:0	2.500	828.000	104.00	73.000
43	6:43:0	2.550	882.000	104.00	54.000
44	6:46:0	2.600	926.000	104.00	44.000
45	6:49:0	2.650	963.000	104.00	37.000
46	6:52:0	2.700	996.000	104.00	33.000
47	6:55:0	2.750	1023.000	104.00	27.000
48	6:58:0	2.800	1048.000	104.00	25.000
49	7: 1:0	2.850	1068.000	104.00	20.000
50	7: 4:0	2.900	1087.000	104.00	19.000
51	7: 7:0	2.950	1101.000	104.00	14.000
52	7:10:0	3.000	1112.000	104.00	11.000

COMPANY : AINSWORTH OPERATING COMPANY
WELL : #2
GAUGE # : 4376
DATE : 5/ 3/88

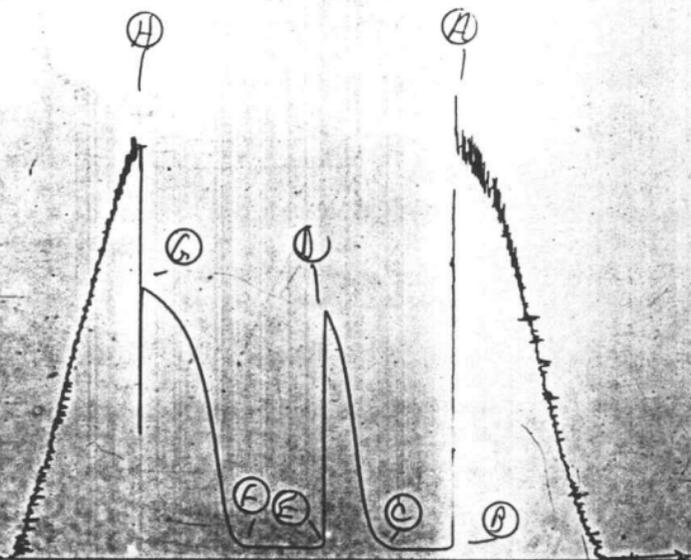
FIELD : SLEEPER
JOB # : 13505
DEPTH : 3235
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	7:13: 0	3.050	1126.000	104.00	14.000

WESTERN TESTING CO. INC.

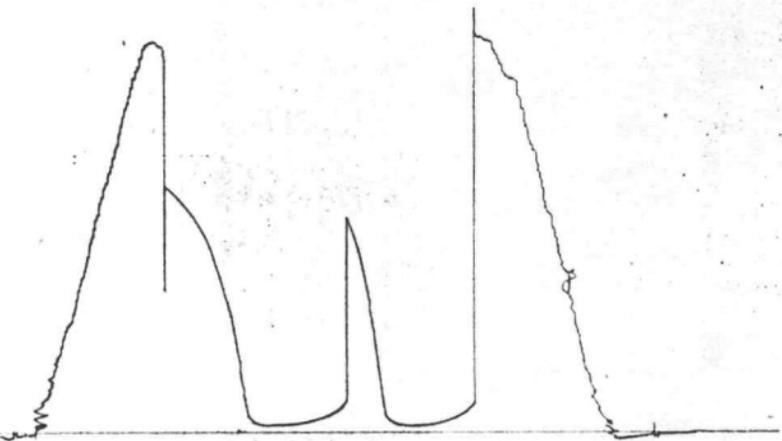
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-6-88 TICKET : 13506
CUSTOMER : AINSWORTH OPERATING COMPANY LEASE : SLEEPER
WELL : #2 TEST: 2 GEOLOGIST : T. HIDY
ELEVATION : 1766 GL FORMATION : LANSING
SECTION : 8 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 4376 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3310 TO : 3364 TOTAL DEPTH : 3364
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3305 SIZE : 6.63
PACKER DEPTH : 3310 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG 7
MUD TYPE : STARCH VISCOSITY : 39
WEIGHT : 9.7 WATER LOSS (CC) : 12.4
CHLORIDES (PPM) : 45000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 310 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2976 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 54 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 FH

BLOW COMMENT #1 : WEAK BLOW DIED IN 25 MINUTES ON THE INITIAL FLOW.
BLOW COMMENT #2 : NO BLOW ON THE FINAL FLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AINSWORTH OPERATING COMPANY
RIG : STAFFORD-KANSAS
FIELD : SLEEPER
WELL : #2
DATE : 3-6-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : AINSWORTH OPERATING COMPANY
 WELL : #2
 GAUGE # : 4376
 DATE : 6/ 3/88

FIELD : SLEEPER
 JOB # : 13506
 DEPTH : 3364
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:45: 0	0.000	57.000	105.00	0.000
2	3:49:59	0.083	57.000	105.00	0.000
3	3:55: 0	0.167	57.000	105.00	0.000
4	4: 0: 0	0.250	57.000	105.00	0.000
5	4: 4:59	0.333	57.000	105.00	0.000
6	4:10: 0	0.417	57.000	105.00	0.000
7	4:15: 0	0.500	57.000	105.00	0.000
8	4:18: 0	0.550	57.000	105.00	0.000
9	4:21: 0	0.600	58.000	105.00	1.000
10	4:24: 0	0.650	59.000	105.00	1.000
11	4:27: 0	0.700	61.000	105.00	2.000
12	4:30: 0	0.750	64.000	105.00	3.000
13	4:33: 0	0.800	67.000	105.00	3.000
14	4:36: 0	0.850	70.000	105.00	3.000
15	4:39: 0	0.900	74.000	105.00	4.000
16	4:42: 0	0.950	79.000	105.00	5.000
17	4:45: 0	1.000	88.000	105.00	9.000
18	4:48: 0	1.050	97.000	105.00	9.000
19	4:51: 0	1.100	108.000	105.00	11.000
20	4:54: 0	1.150	121.000	105.00	13.000
21	4:57: 0	1.200	138.000	105.00	17.000
22	5: 0: 0	1.250	157.000	105.00	19.000
23	5: 1: 0	1.267	59.000	105.00	-98.000
24	5: 4:59	1.333	59.000	105.00	0.000
25	5:10: 0	1.417	59.000	105.00	0.000
26	5:15: 0	1.500	59.000	105.00	0.000
27	5:19:59	1.583	59.000	105.00	0.000
28	5:25: 0	1.667	59.000	105.00	0.000
29	5:30: 0	1.750	59.000	105.00	0.000
30	5:34:59	1.833	59.000	105.00	0.000
31	5:40: 0	1.917	59.000	105.00	0.000
32	5:45: 0	2.000	59.000	105.00	0.000
33	5:48: 0	2.050	59.000	105.00	0.000
34	5:51: 0	2.100	59.000	105.00	0.000
35	5:54: 0	2.150	59.000	105.00	0.000
36	5:57: 0	2.200	60.000	105.00	1.000
37	6: 0: 0	2.250	62.000	105.00	2.000
38	6: 3: 0	2.300	63.000	105.00	1.000
39	6: 6: 0	2.350	65.000	105.00	2.000
40	6: 9: 0	2.400	66.000	105.00	1.000
41	6:12: 0	2.450	68.000	105.00	2.000
42	6:15: 0	2.500	70.000	105.00	2.000
43	6:18: 0	2.550	72.000	105.00	2.000
44	6:21: 0	2.600	74.000	105.00	2.000
45	6:24: 0	2.650	77.000	105.00	3.000
46	6:27: 0	2.700	79.000	105.00	2.000
47	6:30: 0	2.750	82.000	105.00	3.000
48	6:33: 0	2.800	87.000	105.00	5.000
49	6:36: 0	2.850	93.000	105.00	6.000
50	6:39: 0	2.900	98.000	105.00	5.000
51	6:42: 0	2.950	104.000	105.00	6.000
52	6:45: 0	3.000	110.000	105.00	6.000

COMPANY : AINSWORTH OPERATING COMPANY
WELL : #2
GAUGE # : 4376
DATE : 6/ 3/88

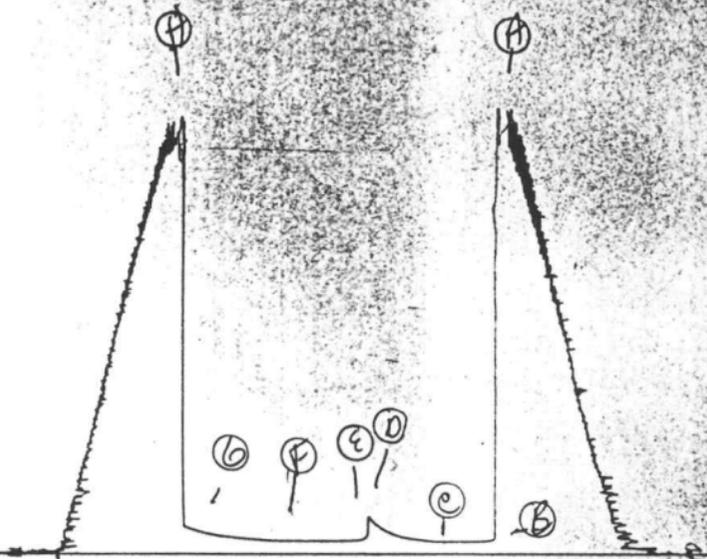
FIELD : SLEEPER
JOB # : 13506
DEPTH : 3364
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	6:48: 0	3.050	116.000	105.00	6.000

WESTERN TESTING CO. INC.

Alt # 13506

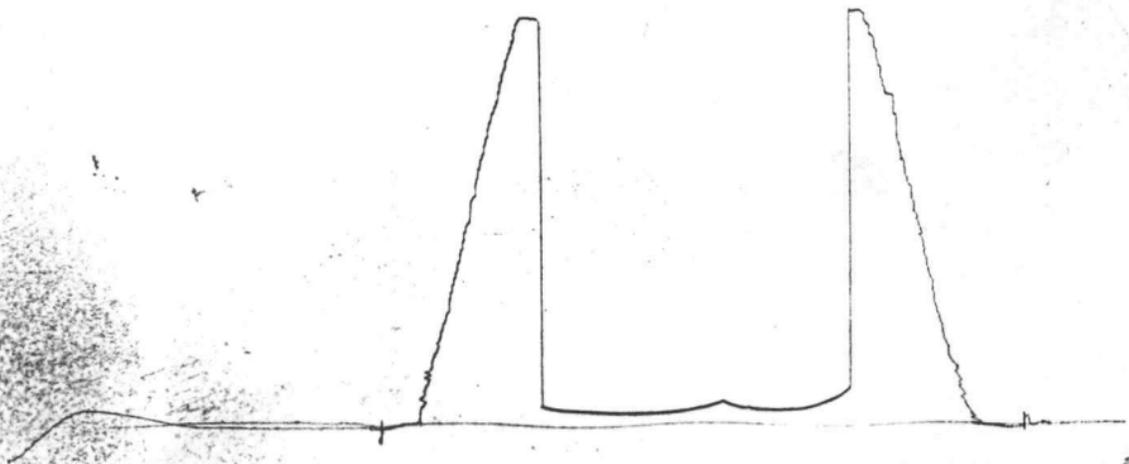
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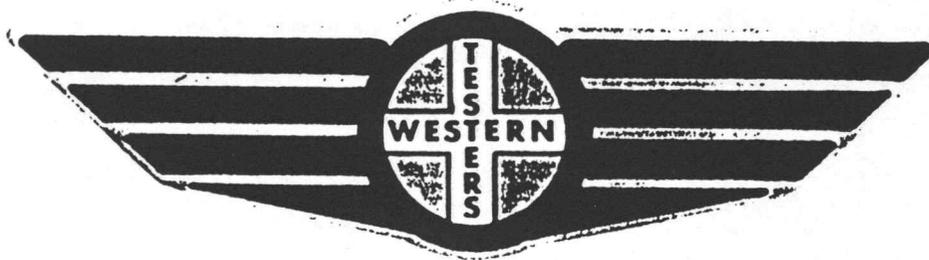
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JK # 13506

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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 : 3-7-88 TICKET : 13507
CUSTOMER : AINSWORTH OPERATING COMPANY LEASE : SLEEPER
WELL : #2 TEST: 3 GEOLOGIST : T. HIDY
ELEVATION : 1766 GL FORMATION : SIMPSON
SECTION : 8 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 4376 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3504 TO : 3518 TOTAL DEPTH : 3518
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3499 SIZE : 6.63
PACKER DEPTH : 3504 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG 7
MUD TYPE : STARCH VISCOSITY : 42
WEIGHT : 9.6 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 43000
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 : 310 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 3170 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 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 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW INCREASED TO STRONG.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW THROUGHOUT.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 90 FT OF: OIL & GAS CUT MUD (20% OIL)
RECOVERED : 60 FT OF: OIL CUT MUDDY WATER (5% OIL)
RECOVERED : 180 FT OF: MUDDY WATER

CHLORIDES: 20000 PPM

Total Barrels Fluid = 2.48
Total Fluid Prod Rate = 47.53 BFPD
Indicated Oil Rate = 3.02 BOPD
Indicated Wtr Rate = 18.73 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 : RECOVERED 720 FEET OF GAS ABOVE FLUID.
REMARK 4 :

SET PACKER(S) : 2:30 AM TIME STARTED OFF BOTTOM : 5:30 AM
WELL TEMPERATURE : 107
INITIAL HYDROSTATIC PRESSURE (A) 1870
INITIAL FLOW PERIOD MIN: 30 (B) 43 PSI TO (C) : 87
INITIAL CLOSED IN PERIOD MIN: 45 (D) 816
FINAL FLOW PERIOD MIN: 45 (E) 117 PSI TO (F) : 171
FINAL CLOSED IN PERIOD MIN: 60 (G) 812
FINAL HYDROSTATIC PRESSURE (H) 1813

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AINSWORTH OPERATING COMPANY
RIG : STAFFORD-KANSAS
FIELD : SLEEPER
WELL : #2
DATE : 3-7-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

RECOVERED 720 FEET OF GAS ABOVE FLUID.

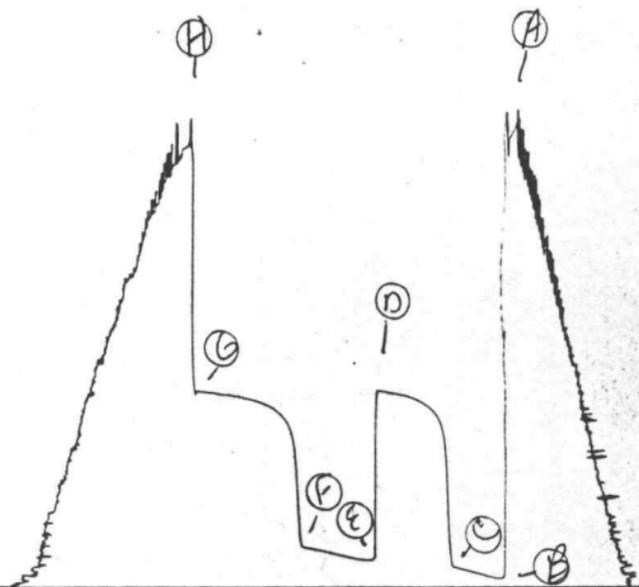
COMPANY : AINSWORTH OPERATING COMPANY
 WELL : #2
 GAUGE # : 4376
 DATE : 7/ 3/88

FIELD : SLEEPER
 JOB # : 13507
 DEPTH : 3518
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:30:0	0.000	43.000	107.00	0.000
2	2:34:59	0.083	43.000	107.00	0.000
3	2:40:0	0.167	49.000	107.00	6.000
4	2:45:0	0.250	59.000	107.00	10.000
5	2:49:59	0.333	68.000	107.00	9.000
6	2:55:0	0.417	78.000	107.00	10.000
7	3:0:0	0.500	87.000	107.00	9.000
8	3:3:0	0.550	316.000	107.00	229.000
9	3:6:0	0.600	608.000	107.00	292.000
10	3:9:0	0.650	693.000	107.00	85.000
11	3:12:0	0.700	723.000	107.00	30.000
12	3:15:0	0.750	743.000	107.00	20.000
13	3:18:0	0.800	761.000	107.00	18.000
14	3:21:0	0.850	772.000	107.00	11.000
15	3:24:0	0.900	782.000	107.00	10.000
16	3:27:0	0.950	790.000	107.00	8.000
17	3:30:0	1.000	796.000	107.00	6.000
18	3:33:0	1.050	798.000	107.00	2.000
19	3:36:0	1.100	804.000	107.00	6.000
20	3:39:0	1.150	807.000	107.00	3.000
21	3:42:0	1.200	810.000	107.00	3.000
22	3:45:0	1.250	816.000	107.00	6.000
23	3:46:0	1.267	117.000	107.00	-699.000
24	3:49:59	1.333	117.000	107.00	0.000
25	3:55:0	1.417	121.000	107.00	4.000
26	4:0:0	1.500	130.000	107.00	9.000
27	4:4:59	1.583	137.000	107.00	7.000
28	4:10:0	1.667	146.000	107.00	9.000
29	4:15:0	1.750	156.000	107.00	10.000
30	4:19:59	1.833	164.000	107.00	8.000
31	4:25:0	1.917	169.000	107.00	5.000
32	4:30:0	2.000	171.000	107.00	2.000
33	4:33:0	2.050	471.000	107.00	300.000
34	4:36:0	2.100	640.000	107.00	169.000
35	4:39:0	2.150	689.000	107.00	49.000
36	4:42:0	2.200	714.000	107.00	25.000
37	4:45:0	2.250	732.000	107.00	18.000
38	4:48:0	2.300	745.000	107.00	13.000
39	4:51:0	2.350	759.000	107.00	14.000
40	4:54:0	2.400	765.000	107.00	6.000
41	4:57:0	2.450	774.000	107.00	9.000
42	5:0:0	2.500	780.000	107.00	6.000
43	5:3:0	2.550	786.000	107.00	6.000
44	5:6:0	2.600	789.000	107.00	3.000
45	5:9:0	2.650	793.000	107.00	4.000
46	5:12:0	2.700	796.000	107.00	3.000
47	5:15:0	2.750	800.000	107.00	4.000
48	5:18:0	2.800	803.000	107.00	3.000
49	5:21:0	2.850	806.000	107.00	3.000
50	5:24:0	2.900	808.000	107.00	2.000
51	5:27:0	2.950	810.000	107.00	2.000
52	5:30:0	3.000	812.000	107.00	2.000

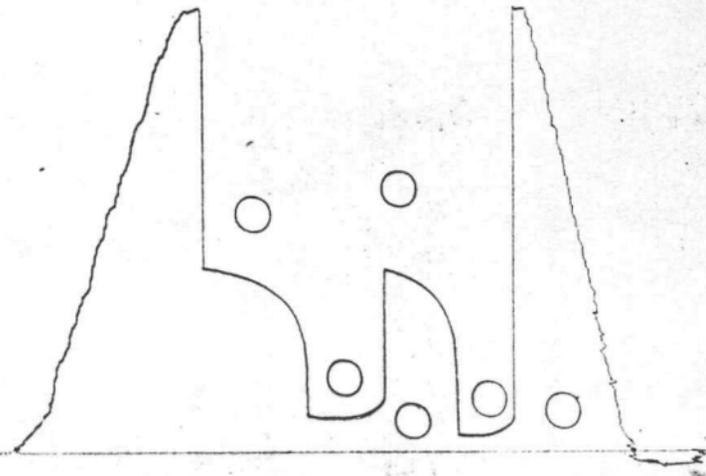
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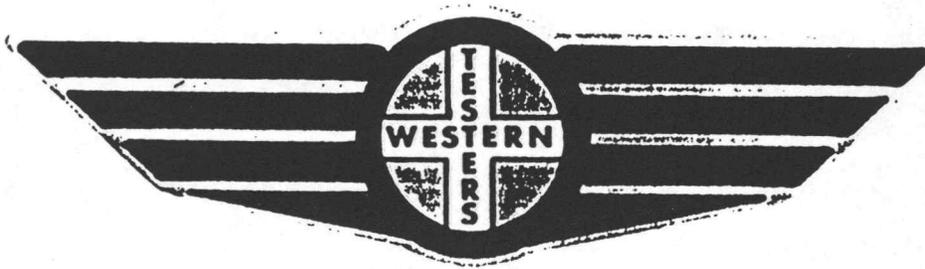
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JK # 13507



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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AINSWORTH OPERATING COMPANY LEASE & WELL NO. SLEEPER #2 SEC. 8 TWP. 22S RGE. 11W TEST NO. 4 DATE 3/8/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-8-88 TICKET : 13508
CUSTOMER : AINSWORTH OPERATING COMPANY LEASE : SLEEPER
WELL : #2 TEST: 4 GEOLOGIST : T. HIDY
ELEVATION : 1766 GL FORMATION : ARBUCKLE
SECTION : 8 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 4376 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3558 TO : 3565 TOTAL DEPTH : 3565
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3553 SIZE : 6.63
PACKER DEPTH : 3558 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG 7
MUD TYPE : STARCH VISCOSITY : 47
WEIGHT : 9.7 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 47000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 310 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 3222 FT I.D. inch : 3.80
TEST TOOL LENGTH : 26 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 7 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 FH

BLOW COMMENT #1 : FAIR BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 240 FT OF: GASSY OIL (20 GRAVITY)

Total Barrels Fluid = 1.70
Total Fluid Prod Rate = 32.63 BFPD
Indicated Oil Rate = 32.63 BOPD
Corrected Oil Rate = 20.17 BOPD

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

SET PACKER(S) : 1:15 AM

TIME STARTED OFF BOTTOM : 4:15 AM

WELL TEMPERATURE : 109

INITIAL HYDROSTATIC PRESSURE

(A) 1884

INITIAL FLOW PERIOD MIN: 30

(B) 36 PSI TO (C) : 53

INITIAL CLOSED IN PERIOD MIN: 45

(D) 877

FINAL FLOW PERIOD MIN: 45

(E) 77 PSI TO (F) : 96

FINAL CLOSED IN PERIOD MIN: 60

(G) 789

FINAL HYDROSTATIC PRESSURE

(H) 1855

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AINSWORTH OPERATING COMPANY
RIG : STAFFORD-KANSAS
FIELD : SLEEPER
WELL : #2
DATE : 3-8-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

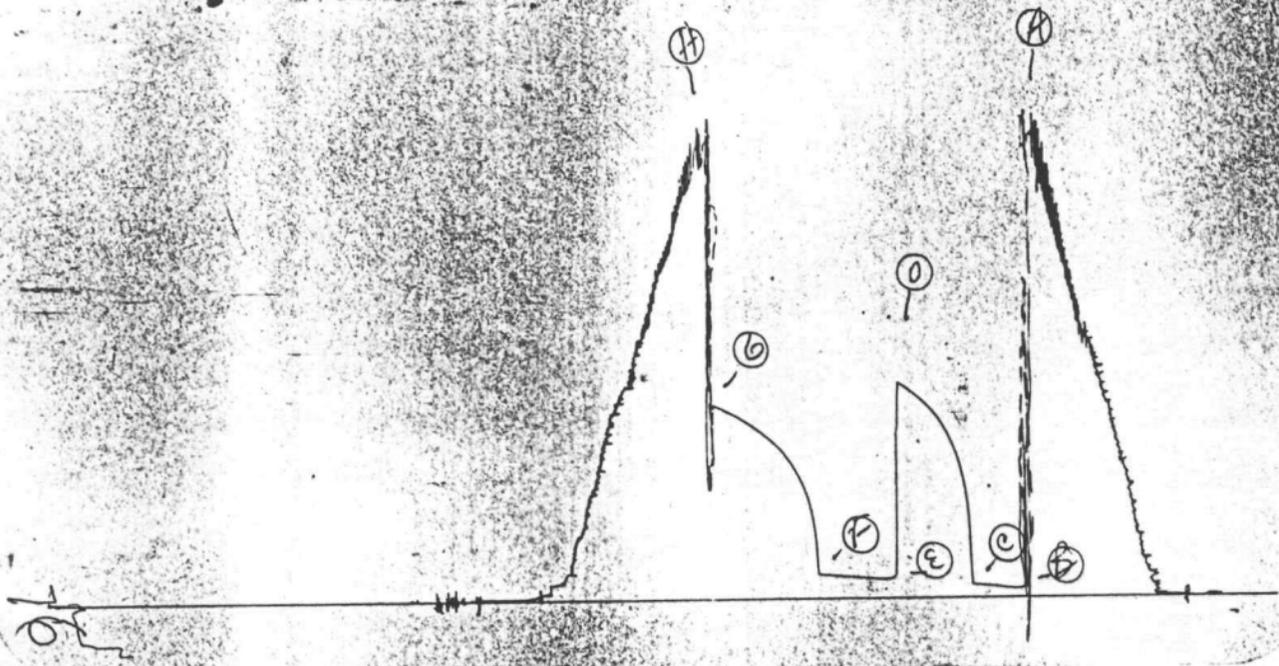
COMPANY : AINSWORTH OPERATING COMPANY
 WELL : #2
 GAUGE # : 4376
 DATE : 8/ 3/88

FIELD : SLEEPER
 JOB # : 13508
 DEPTH : 3565
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:15:0	0.000	36.000	109.00	0.000
2	1:19:59	0.083	36.000	109.00	0.000
3	1:25:0	0.167	38.000	109.00	2.000
4	1:30:0	0.250	43.000	109.00	5.000
5	1:34:59	0.333	47.000	109.00	4.000
6	1:40:0	0.417	50.000	109.00	3.000
7	1:45:0	0.500	53.000	109.00	3.000
8	1:48:0	0.550	327.000	109.00	274.000
9	1:51:0	0.600	477.000	109.00	150.000
10	1:54:0	0.650	556.000	109.00	79.000
11	1:57:0	0.700	616.000	109.00	60.000
12	2:0:0	0.750	662.000	109.00	46.000
13	2:3:0	0.800	703.000	109.00	41.000
14	2:6:0	0.850	736.000	109.00	33.000
15	2:9:0	0.900	762.000	109.00	26.000
16	2:12:0	0.950	782.000	109.00	20.000
17	2:15:0	1.000	803.000	109.00	21.000
18	2:18:0	1.050	823.000	109.00	20.000
19	2:21:0	1.100	840.000	109.00	17.000
20	2:24:0	1.150	854.000	109.00	14.000
21	2:27:0	1.200	867.000	109.00	13.000
22	2:30:0	1.250	877.000	109.00	10.000
23	2:31:0	1.267	77.000	109.00	-800.000
24	2:34:59	1.333	77.000	109.00	0.000
25	2:40:0	1.417	77.000	109.00	0.000
26	2:45:0	1.500	79.000	109.00	2.000
27	2:49:59	1.583	82.000	109.00	3.000
28	2:55:0	1.667	84.000	109.00	2.000
29	3:0:0	1.750	88.000	109.00	4.000
30	3:4:59	1.833	90.000	109.00	2.000
31	3:10:0	1.917	94.000	109.00	4.000
32	3:15:0	2.000	96.000	109.00	2.000
33	3:18:0	2.050	272.000	109.00	176.000
34	3:21:0	2.100	383.000	109.00	111.000
35	3:24:0	2.150	444.000	109.00	61.000
36	3:27:0	2.200	491.000	109.00	47.000
37	3:30:0	2.250	533.000	109.00	42.000
38	3:33:0	2.300	564.000	109.00	31.000
39	3:36:0	2.350	594.000	109.00	30.000
40	3:39:0	2.400	618.000	109.00	24.000
41	3:42:0	2.450	638.000	109.00	20.000
42	3:45:0	2.500	656.000	109.00	18.000
43	3:48:0	2.550	675.000	109.00	19.000
44	3:51:0	2.600	694.000	109.00	19.000
45	3:54:0	2.650	709.000	109.00	15.000
46	3:57:0	2.700	719.000	109.00	10.000
47	4:0:0	2.750	734.000	109.00	15.000
48	4:3:0	2.800	747.000	109.00	13.000
49	4:6:0	2.850	759.000	109.00	12.000
50	4:9:0	2.900	768.000	109.00	9.000
51	4:12:0	2.950	779.000	109.00	11.000
52	4:15:0	3.000	789.000	109.00	10.000

JK # 13508

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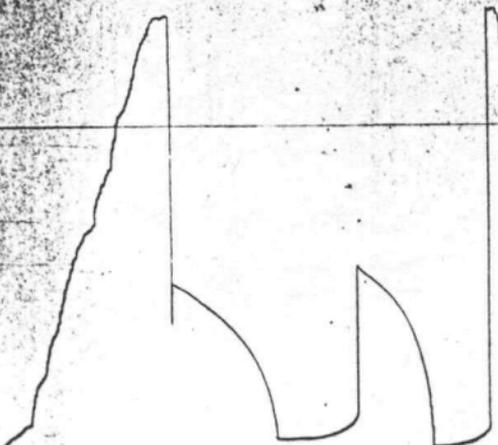


JK # 13508

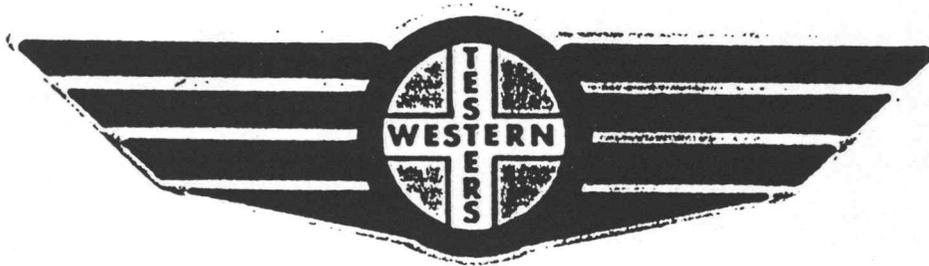


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-8-88 TICKET : 13509
CUSTOMER : AINSWORTH OPERATING COMPANY LEASE : SLEEPER
WELL : #2 TEST: 5 GEOLOGIST : T. HIDY
ELEVATION : 1766 GL FORMATION : ARBUCKLE
SECTION : 8 TOWNSHIP : 22S
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 4376 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3565 TO : 3575 TOTAL DEPTH : 3575
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3560 SIZE : 6.63
PACKER DEPTH : 3565 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG 7
MUD TYPE : STARCH VISCOSITY : 50
WEIGHT : 9.7 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 47000
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 : 310 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 3231 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 10 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 FH

BLOW COMMENT #1 : STRONG BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 180 FT OF: GASSY OIL (20 GRAVITY)
RECOVERED : 120 FT OF: OIL CUT MUDDY WATER (10% OIL)
RECOVERED : 360 FT OF: WATER

CHLORIDES: 19000 PPM

Total Barrels Fluid = 7.10
Total Fluid Prod Rate = 136.40 BFPD
Indicated Oil Rate = 39.68 BOPD
Indicated Wtr Rate = 82.67 BWPD
Corrected Oil Rate = 90.45 BOPD
Corrected Wtr Rate = 188.44 BWPD

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

SET PACKER(S) : 3:20 PM

TIME STARTED OFF BOTTOM : 6:20 PM

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1877

INITIAL FLOW PERIOD MIN: 30

(B) 125 PSI TO (C) : 197

INITIAL CLOSED IN PERIOD MIN: 42

(D) 724

FINAL FLOW PERIOD MIN: 45

(E) 252 PSI TO (F) : 302

FINAL CLOSED IN PERIOD MIN: 60

(G) 694

FINAL HYDROSTATIC PRESSURE

(H) 1848

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AINSWORTH OPERATING COMPANY
RIG : STAFFORD-KANSAS
FIELD : SLEEPER
WELL : #2
DATE : 3-8-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

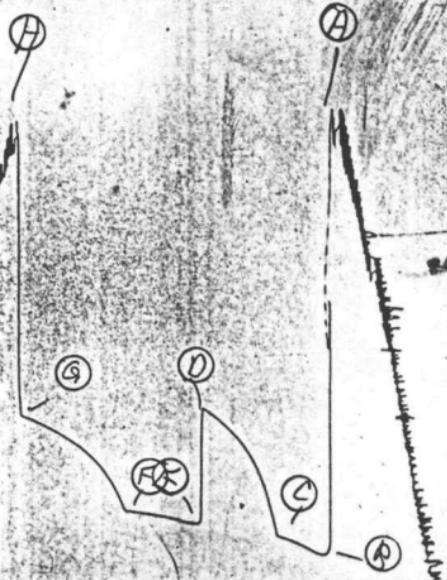
COMPANY : AINSWORTH OPERATING COMPANY
 WELL : #2
 GAUGE # : 4376
 DATE : 8/ 3/88

FIELD : SLEEPER
 JOB # : 13509
 DEPTH : 3575
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:20: 0	0.000	125.000	110.00	0.000
2	3:24:59	0.083	125.000	110.00	0.000
3	3:30: 0	0.167	135.000	110.00	10.000
4	3:35: 0	0.250	153.000	110.00	18.000
5	3:39:59	0.333	170.000	110.00	17.000
6	3:45: 0	0.417	185.000	110.00	15.000
7	3:50: 0	0.500	197.000	110.00	12.000
8	3:53: 0	0.550	274.000	110.00	77.000
9	3:56: 0	0.600	361.000	110.00	87.000
10	3:59: 0	0.650	422.000	110.00	61.000
11	4: 2: 0	0.700	474.000	110.00	52.000
12	4: 5: 0	0.750	519.000	110.00	45.000
13	4: 8: 0	0.800	556.000	110.00	37.000
14	4:11: 0	0.850	585.000	110.00	29.000
15	4:14: 0	0.900	609.000	110.00	24.000
16	4:17: 0	0.950	632.000	110.00	23.000
17	4:20: 0	1.000	655.000	110.00	23.000
18	4:23: 0	1.050	673.000	110.00	18.000
19	4:26: 0	1.100	691.000	110.00	18.000
20	4:29: 0	1.150	705.000	110.00	14.000
21	4:32: 0	1.200	724.000	110.00	19.000
22	4:33: 0	1.217	252.000	110.00	-472.000
23	4:36:59	1.283	252.000	110.00	0.000
24	4:42: 0	1.367	261.000	110.00	9.000
25	4:47: 0	1.450	269.000	110.00	8.000
26	4:51:59	1.533	277.000	110.00	8.000
27	4:57: 0	1.617	285.000	110.00	8.000
28	5: 2: 0	1.700	290.000	110.00	5.000
29	5: 6:59	1.783	297.000	110.00	7.000
30	5:12: 0	1.867	300.000	110.00	3.000
31	5:17: 0	1.950	302.000	110.00	2.000
32	5:20: 0	2.000	346.000	110.00	44.000
33	5:23: 0	2.050	393.000	110.00	47.000
34	5:26: 0	2.100	433.000	110.00	40.000
35	5:29: 0	2.150	462.000	110.00	29.000
36	5:32: 0	2.200	489.000	110.00	27.000
37	5:35: 0	2.250	514.000	110.00	25.000
38	5:38: 0	2.300	535.000	110.00	21.000
39	5:41: 0	2.350	554.000	110.00	19.000
40	5:44: 0	2.400	569.000	110.00	15.000
41	5:47: 0	2.450	587.000	110.00	18.000
42	5:50: 0	2.500	599.000	110.00	12.000
43	5:53: 0	2.550	614.000	110.00	15.000
44	5:56: 0	2.600	625.000	110.00	11.000
45	5:59: 0	2.650	638.000	110.00	13.000
46	6: 2: 0	2.700	649.000	110.00	11.000
47	6: 5: 0	2.750	660.000	110.00	11.000
48	6: 8: 0	2.800	669.000	110.00	9.000
49	6:11: 0	2.850	679.000	110.00	10.000
50	6:14: 0	2.900	688.000	110.00	9.000
51	6:17: 0	2.950	694.000	110.00	6.000

TR 12509

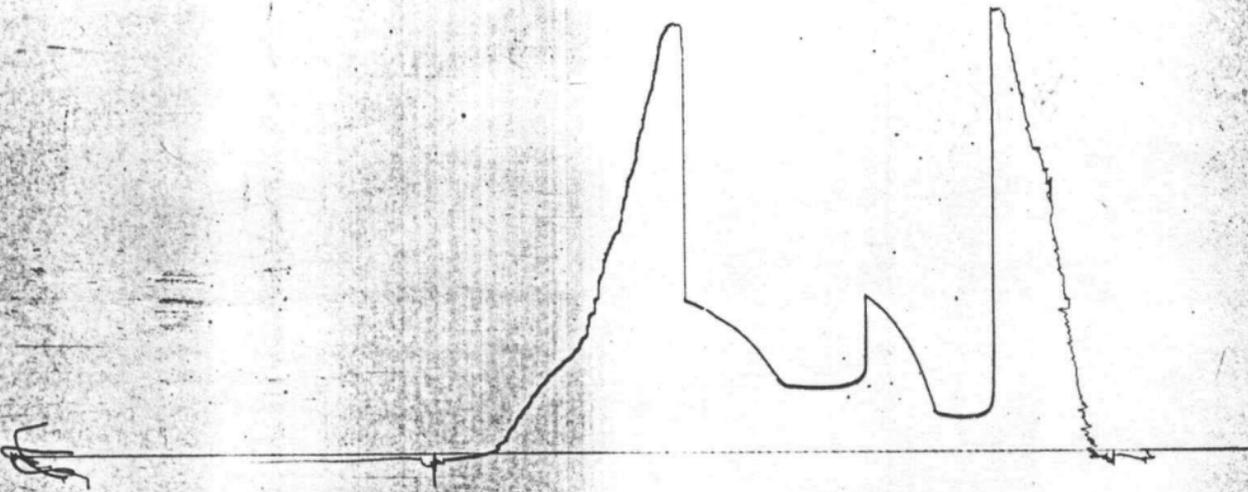
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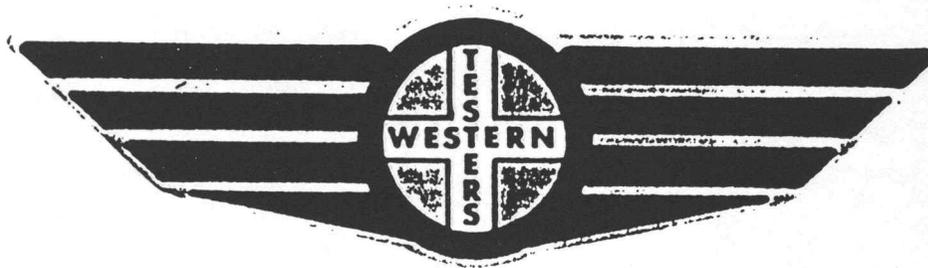
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-9-88
CUSTOMER : AINSWORTH OPERATING COMPANY
WELL : #2 TEST: 6
ELEVATION : 1766 GL
SECTION : 8
RANGE : 11W COUNTY : STAFFORD
GAUGE SN# : 4376 RANGE : 4000
TICKET : 13510
LEASE : SLEEPER
GEOLOGIST : T. HIDY
FORMATION : CONGLOMERATE
TOWNSHIP : 22S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3453 TO : 3499 TOTAL DEPTH : 3635
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3448 SIZE : 6.63
PACKER DEPTH : 3453 SIZE : 6.63
PACKER DEPTH : 3499 SIZE : 6.63
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG 7
MUD TYPE : STARCH VISCOSITY : 44
WEIGHT : 9.6 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 43000
JARS-MAKE : NO SERIAL NUMBER :
DID WELL FLOW ? : REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 240 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 3213 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 46 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 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: SLIGHTLY GAS CUT MUD

Total Barrels Fluid = 0.21
Total Fluid Prod Rate = 4.08 BFPD
Indicated Wtr Rate = 0.41 BWPD

REMARK 1 :
REMARK 2 : 136 FEET OF TAIL PIPE.
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	12:00 PM	TIME STARTED OFF BOTTOM :	3:00 PM
WELL TEMPERATURE :	106		
INITIAL HYDROSTATIC PRESSURE		(A)	1849
INITIAL FLOW PERIOD MIN:	30	(B)	51 PSI TO (C) : 51
INITIAL CLOSED IN PERIOD MIN:	45	(D)	93
FINAL FLOW PERIOD MIN:	45	(E)	55 PSI TO (F) : 55
FINAL CLOSED IN PERIOD MIN:	60	(G)	74
FINAL HYDROSTATIC PRESSURE		(H)	1825

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AINSWORTH OPERATING COMPANY
RIG : STAFFORD-KANSAS
FIELD : SLEEPER
WELL : #2
DATE : 3-9-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

136 FEET OF TAIL PIPE.

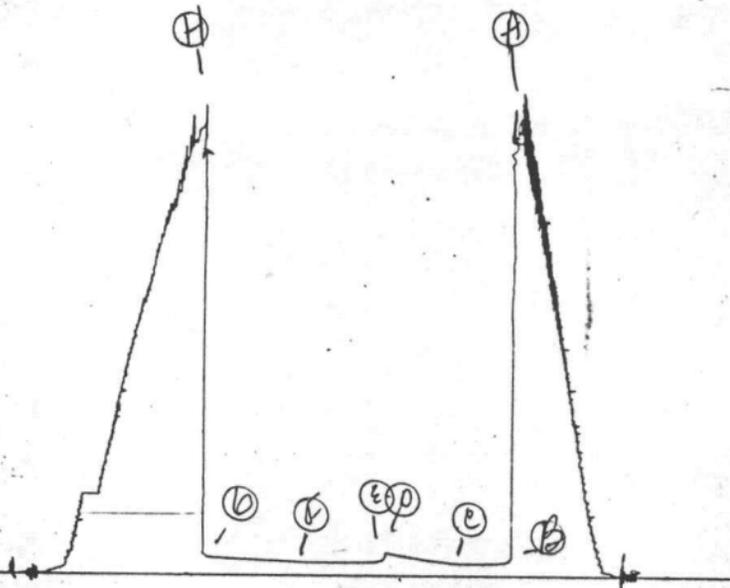
COMPANY : AINSWORTH OPERATING COMPANY
 WELL # : #2
 GAUGE # : 4376
 DATE : 9/ 3/88

FIELD : SLEEPER
 JOB # : 13510
 DEPTH : 3635
 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: 0: 0	0.000	51.000	106.00	0.000
2	12: 4: 59	0.083	51.000	106.00	0.000
3	12:10: 0	0.167	51.000	106.00	0.000
4	12:15: 0	0.250	51.000	106.00	0.000
5	12:19: 59	0.333	51.000	106.00	0.000
6	12:25: 0	0.417	51.000	106.00	0.000
7	12:30: 0	0.500	51.000	106.00	0.000
8	12:33: 0	0.550	51.000	106.00	0.000
9	12:36: 0	0.600	53.000	106.00	2.000
10	12:39: 0	0.650	56.000	106.00	3.000
11	12:42: 0	0.700	58.000	106.00	2.000
12	12:45: 0	0.750	60.000	106.00	2.000
13	12:48: 0	0.800	63.000	106.00	3.000
14	12:51: 0	0.850	66.000	106.00	3.000
15	12:54: 0	0.900	68.000	106.00	2.000
16	12:57: 0	0.950	73.000	106.00	5.000
17	13: 0: 0	1.000	75.000	106.00	2.000
18	13: 2: 59	1.050	79.000	106.00	4.000
19	13: 6: 0	1.100	82.000	106.00	3.000
20	13: 9: 0	1.150	86.000	106.00	4.000
21	13:12: 0	1.200	88.000	106.00	2.000
22	13:15: 0	1.250	93.000	106.00	5.000
23	13:16: 0	1.267	55.000	106.00	-38.000
24	13:19: 59	1.333	55.000	106.00	0.000
25	13:25: 0	1.417	55.000	106.00	0.000
26	13:30: 0	1.500	55.000	106.00	0.000
27	13:34: 59	1.583	55.000	106.00	0.000
28	13:40: 0	1.667	55.000	106.00	0.000
29	13:45: 0	1.750	55.000	106.00	0.000
30	13:49: 59	1.833	55.000	106.00	0.000
31	13:55: 0	1.917	55.000	106.00	0.000
32	14: 0: 0	2.000	55.000	106.00	0.000
33	14: 3: 0	2.050	55.000	106.00	0.000
34	14: 5: 59	2.100	56.000	106.00	1.000
35	14: 9: 0	2.150	58.000	106.00	2.000
36	14:12: 0	2.200	59.000	106.00	1.000
37	14:15: 0	2.250	61.000	106.00	2.000
38	14:18: 0	2.300	63.000	106.00	2.000
39	14:21: 0	2.350	63.000	106.00	0.000
40	14:24: 0	2.400	63.000	106.00	0.000
41	14:27: 0	2.450	64.000	106.00	1.000
42	14:30: 0	2.500	64.000	106.00	0.000
43	14:33: 0	2.550	65.000	106.00	1.000
44	14:36: 0	2.600	66.000	106.00	1.000
45	14:39: 0	2.650	67.000	106.00	1.000
46	14:42: 0	2.700	68.000	106.00	1.000
47	14:45: 0	2.750	69.000	106.00	1.000
48	14:48: 0	2.800	70.000	106.00	1.000
49	14:51: 0	2.850	71.000	106.00	1.000
50	14:54: 0	2.900	72.000	106.00	1.000
51	14:57: 0	2.950	73.000	106.00	1.000
52	15: 0: 0	3.000	74.000	106.00	1.000

NK # 13510

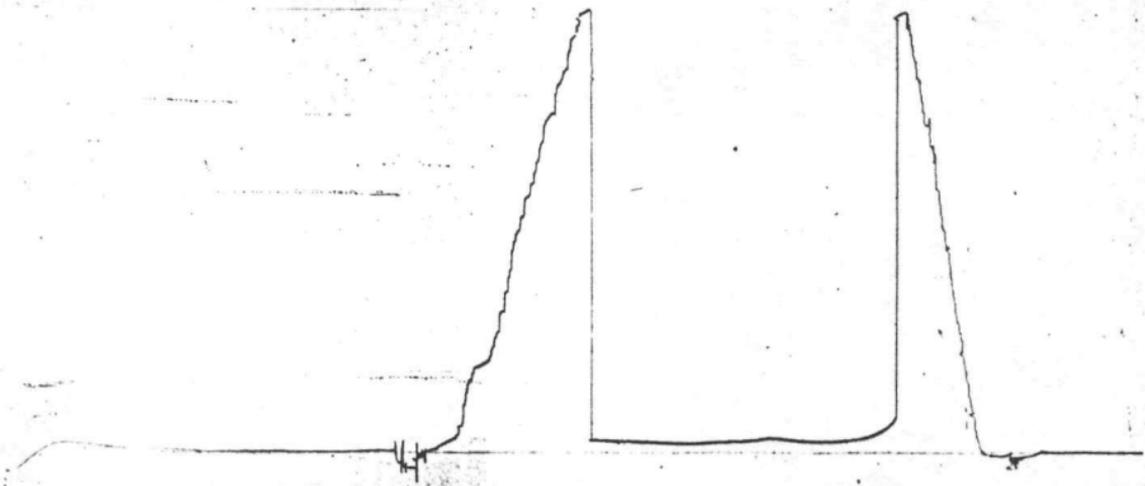
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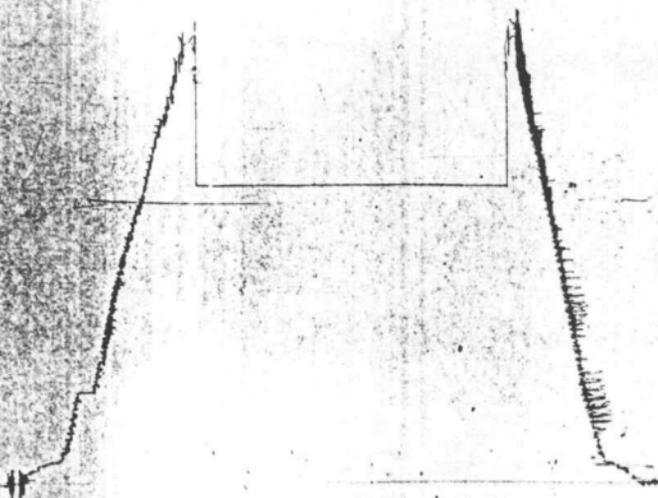
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JK # 13510

Below Straddle

1051



1501