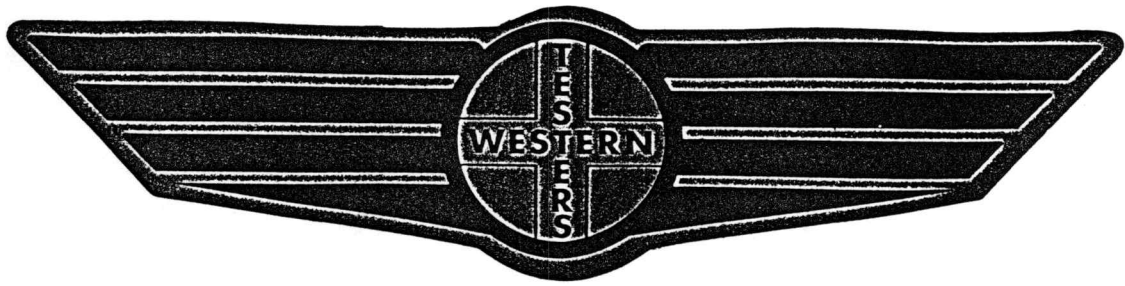


15-193-20572

# FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201  
P.O. Box 1599 Phone 1 - 800-688-7021

COMPANY KIMANDA ENERGY, INC. LEASE & WELL NO. RENNER #1 SEC. 21 TWP. 9S RGE. 21W TEST NO. 1 DATE 10/9/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-9-91  
CUSTOMER : KIWANDA ENERGY INC.  
WELL : 1 TEST: 1  
ELEVATION : 3092 GR  
SECTION : 21  
RANGE : 32W COUNTY : THOMAS  
GAUGE SN# : 6233 RANGE : 4000  
TICKET : 18049  
LEASE : RENNER  
GEOLOGIST : ALBERTS  
FORMATION : L KANSAS CITY E  
TOWNSHIP : 9S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4160 TO : 4176 TOTAL DEPTH : 4176  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4155 SIZE : 6.75  
PACKER DEPTH : 4160 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 3  
MUD TYPE : MONPAC VISCOSITY : 42  
WEIGHT : 9.0 WATER LOSS (CC) : 9.6  
CHLORIDES (PPM) : 1500  
JARS-MAKE :  
DID WELL FLOW ? : NO SERIAL NUMBER :  
REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 236 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 657 FT I.D. inch : 3.20  
DRILL PIPE LENGTH : 3247 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 16 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 WEAK SURFACE BLOW  
BLOW COMMENT #2 : DIED IN 5 MINUTES.  
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW.  
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: MUD

Total Barrels Fluid = 0.02  
Total Fluid Prod Rate = 0.56 BFPD  
Indicated Wtr Rate = 0.06 BWPD

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

SET PACKER(S) : 5:35 P.M.

TIME STARTED OFF BOTTOM : 7:35 P.M.

WELL TEMPERATURE : 119

INITIAL HYDROSTATIC PRESSURE

(A) 2055

INITIAL FLOW PERIOD MIN: 30

(B) 37 PSI TO (C) : 37

INITIAL CLOSED IN PERIOD MIN: 30

(D) 968

FINAL FLOW PERIOD MIN: 30

(E) 39 PSI TO (F) : 43

FINAL CLOSED IN PERIOD MIN: 33

(G) 986

FINAL HYDROSTATIC PRESSURE

(H) 2013

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : KIWANDA ENERGY INC.  
RIG : THOMAS-KANSAS  
FIELD : RENNER  
WELL : 1  
DATE : 10-9-91  
GAUGE NO : 6233

OPERATIONAL COMMENTS

COMPANY : KIWANDA ENERGY INC.  
 WELL : 1  
 GAUGE # : 6233  
 DATE : 9/10/91

FIELD : RENNER  
 JOB # : 18049  
 DEPTH : 4176  
 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 PERIOD					
2	5:35: 0	0.000	37.000	119.00	0.000
3	5:39:59	0.083	37.000	119.00	0.000
4	5:45: 0	0.167	37.000	119.00	0.000
5	5:50: 0	0.250	37.000	119.00	0.000
6	5:54:59	0.333	37.000	119.00	0.000
7	6: 0: 0	0.417	37.000	119.00	0.000
8	6: 5: 0	0.500	37.000	119.00	0.000
INITIAL SHUT-IN PERIOD					
9	6: 8: 0	0.550	39.000	119.00	2.000
10	6:11: 0	0.600	43.000	119.00	4.000
11	6:14: 0	0.650	50.000	119.00	7.000
12	6:17: 0	0.700	172.000	119.00	122.000
13	6:20: 0	0.750	370.000	119.00	198.000
14	6:23: 0	0.800	558.000	119.00	188.000
15	6:26: 0	0.850	695.000	119.00	137.000
16	6:29: 0	0.900	802.000	119.00	107.000
17	6:32: 0	0.950	890.000	119.00	88.000
18	6:35: 0	1.000	968.000	119.00	78.000
FINAL FLOW PERIOD					
19	6:36: 0	1.017	39.000	119.00	-929.000
20	6:39:59	1.083	39.000	119.00	0.000
21	6:45: 0	1.167	39.000	119.00	0.000
22	6:50: 0	1.250	39.000	119.00	0.000
23	6:54:59	1.333	41.000	119.00	2.000
24	7: 0: 0	1.417	42.000	119.00	1.000
25	7: 5: 0	1.500	43.000	119.00	1.000
FINAL SHUT-IN PERIOD					
26	7: 8: 0	1.550	43.000	119.00	0.000
27	7:11: 0	1.600	57.000	119.00	14.000
28	7:14: 0	1.650	207.000	119.00	150.000
29	7:17: 0	1.700	387.000	119.00	180.000
30	7:20: 0	1.750	552.000	119.00	165.000
31	7:23: 0	1.800	677.000	119.00	125.000
32	7:26: 0	1.850	769.000	119.00	92.000
33	7:29: 0	1.900	855.000	119.00	86.000
34	7:32: 0	1.950	917.000	119.00	62.000
35	7:35: 0	2.000	961.000	119.00	44.000
36	7:38: 0	2.050	986.000	119.00	25.000

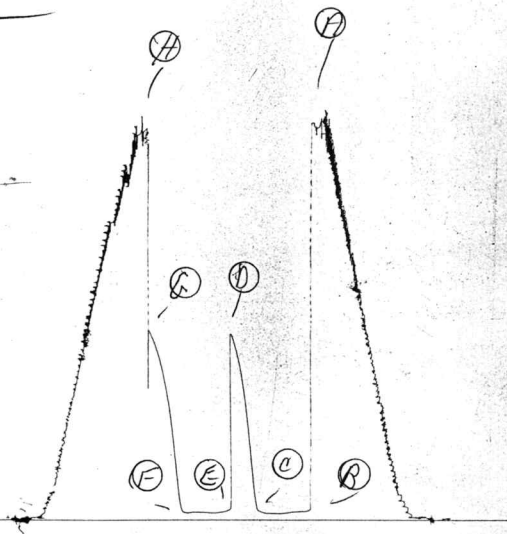
WESTERN TESTING CO. INC.

6233

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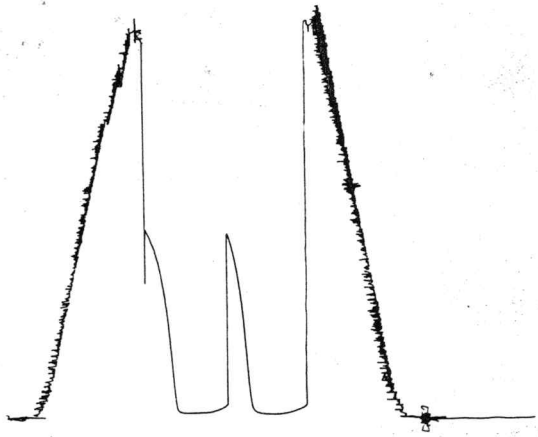


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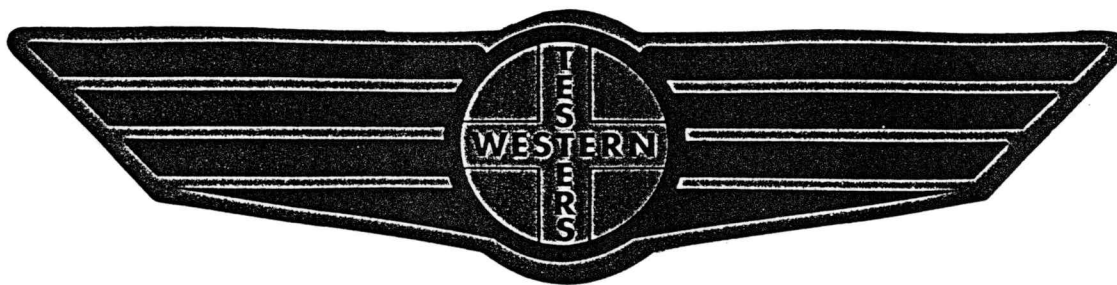
KT 18049

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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY KIWANDA ENERGY, INC. LEASE & WELL NO. RENNER #1 SEC. 21 TWP. 9S RGE. 32W TEST NO. 2 DATE 10/10/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-10-91  
CUSTOMER : KIWANDA ENERGY INC.  
WELL : 1 TEST: 2  
ELEVATION : 3092 GR  
SECTION : 21  
RANGE : 32W COUNTY : THOMAS  
GAUGE SN# : 6233 RANGE : 4000  
TICKET : 18050  
LEASE : RENNER  
GEOLOGIST : ALBERTS  
FORMATION : L KANS CITY IJK  
TOWNSHIP : 9S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4250 TO : 4345 TOTAL DEPTH : 4345  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4245 SIZE : 6.75  
PACKER DEPTH : 4250 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 3  
MUD TYPE : MONPAC VISCOSITY : 49  
WEIGHT : 9.1 WATER LOSS (CC) : 10.2  
CHLORIDES (PPM) : 1800  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 236 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 594 FT I.D. inch : 3.20  
DRILL PIPE LENGTH : 3400 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 95 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 WEAK BLOW-INCREASED TO  
BLOW COMMENT #2 : A 4 INCH BLOW IN WATER.  
BLOW COMMENT #3 : FINAL FLOW PERIOD WEAK STEADY BLOW-1/2 INCH IN WATER.  
BLOW COMMENT #4 :

RECOVERED : 210 FT OF: MUD  
RECOVERED : 122 FT OF: WATERY MUD-50%WATER;50%MUD  
RECOVERED : 0 FT OF: CHLORIDES 18000 P.P.M.

Total Barrels Fluid = 2.06  
Total Fluid Prod Rate = 33.03 BFPD  
Indicated Wtr Rate = 8.16 BWPD

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

SET PACKER(S) : 2:50 P.M.                      TIME STARTED OFF BOTTOM : 6:20 P.M.  
WELL TEMPERATURE : 124  
INITIAL HYDROSTATIC PRESSURE (A) 2163  
INITIAL FLOW PERIOD MIN: 45 (B) 57 PSI TO (C) : 131  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1001  
FINAL FLOW PERIOD MIN: 45 (E) 165 PSI TO (F) : 180  
FINAL CLOSED IN PERIOD MIN: 60 (G) 989  
FINAL HYDROSTATIC PRESSURE (H) 2089

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : KIWANDA ENERGY INC.  
RIG : THOMAS-KANSAS  
FIELD : RENNER  
WELL : 1  
DATE : 10-10-91  
GAUGE NO : 6233

OPERATIONAL COMMENTS

COMPANY : KIWANDA ENERGY INC.  
WELL : 1  
GAUGE # : 6233  
DATE : 10/10/91

FIELD : RENNER  
JOB # : 18050  
DEPTH : 4345  
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 PERIOD					
2	2:50: 0	0.000	57.000	124.00	0.000
3	2:54:59	0.083	57.000	124.00	0.000
4	3: 0: 0	0.167	57.000	124.00	0.000
5	3: 5: 0	0.250	62.000	124.00	5.000
6	3: 9:59	0.333	78.000	124.00	16.000
7	3:15: 0	0.417	98.000	124.00	20.000
8	3:20: 0	0.500	109.000	124.00	11.000
9	3:24:59	0.583	115.000	124.00	6.000
10	3:30: 0	0.667	127.000	124.00	12.000
11	3:35: 0	0.750	131.000	124.00	4.000
INITIAL SHUT-IN PERIOD					
12	3:38: 0	0.800	560.000	124.00	429.000
13	3:41: 0	0.850	776.000	124.00	216.000
14	3:44: 0	0.900	852.000	124.00	76.000
15	3:47: 0	0.950	886.000	124.00	34.000
16	3:50: 0	1.000	907.000	124.00	21.000
17	3:53: 0	1.050	926.000	124.00	19.000
18	3:56: 0	1.100	941.000	124.00	15.000
19	3:59: 0	1.150	951.000	124.00	10.000
20	4: 2: 0	1.200	963.000	124.00	12.000
21	4: 5: 0	1.250	968.000	124.00	5.000
22	4: 8: 0	1.300	975.000	124.00	7.000
23	4:11: 0	1.350	978.000	124.00	3.000
24	4:14: 0	1.400	981.000	124.00	3.000
25	4:17: 0	1.450	983.000	124.00	2.000
26	4:20: 0	1.500	988.000	124.00	5.000
27	4:23: 0	1.550	991.000	124.00	3.000
28	4:26: 0	1.600	993.000	124.00	2.000
29	4:29: 0	1.650	996.000	124.00	3.000
30	4:32: 0	1.700	999.000	124.00	3.000
31	4:35: 0	1.750	1001.000	124.00	2.000
FINAL FLOW PERIOD					
32	4:36: 0	1.767	165.000	124.00	-836.000
33	4:39:59	1.833	165.000	124.00	0.000
34	4:45: 0	1.917	165.000	124.00	0.000
35	4:50: 0	2.000	166.000	124.00	1.000
36	4:54:59	2.083	170.000	124.00	4.000
37	5: 0: 0	2.167	173.000	124.00	3.000
38	5: 5: 0	2.250	176.000	124.00	3.000
39	5: 9:59	2.333	178.000	124.00	2.000
40	5:15: 0	2.417	179.000	124.00	1.000
41	5:20: 0	2.500	180.000	124.00	1.000
FINAL SHUT-IN PERIOD					
42	5:23: 0	2.550	695.000	124.00	515.000
43	5:26: 0	2.600	825.000	124.00	130.000
44	5:29: 0	2.650	869.000	124.00	44.000
45	5:32: 0	2.700	894.000	124.00	25.000
46	5:35: 0	2.750	909.000	124.00	15.000
47	5:38: 0	2.800	921.000	124.00	12.000
48	5:41: 0	2.850	928.000	124.00	7.000

COMPANY : KIWANDA ENERGY INC.  
WELL : 1  
GAUGE # : 6233  
DATE : 10/10/91

FIELD : RENNER  
JOB # : 18050  
DEPTH : 4345  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	5:44: 0	2.900	935.000	124.00	7.000
50	5:47: 0	2.950	942.000	124.00	7.000
51	5:50: 0	3.000	946.000	124.00	4.000
52	5:53: 0	3.050	950.000	124.00	4.000
53	5:56: 0	3.100	955.000	124.00	5.000
54	5:59: 0	3.150	959.000	124.00	4.000
55	6: 2: 0	3.200	962.000	124.00	3.000
56	6: 5: 0	3.250	964.000	124.00	2.000
57	6: 8: 0	3.300	966.000	124.00	2.000
58	6:11: 0	3.350	969.000	124.00	3.000
59	6:14: 0	3.400	974.000	124.00	5.000
60	6:17: 0	3.450	981.000	124.00	7.000
61	6:20: 0	3.500	989.000	124.00	8.000

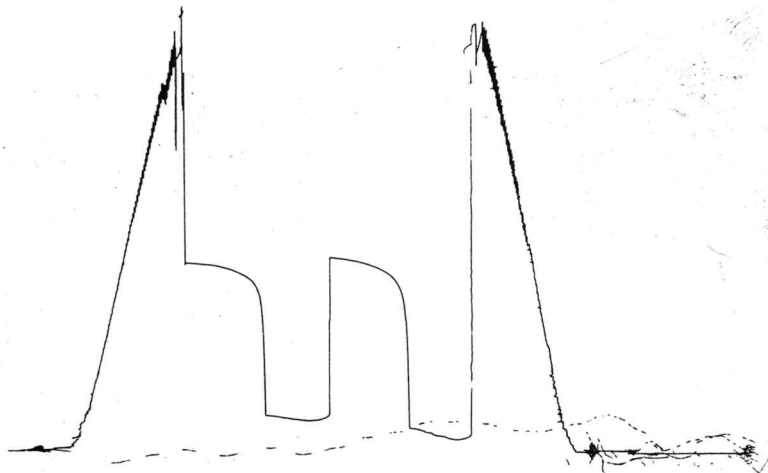
WESTERN TESTING CO. INC.

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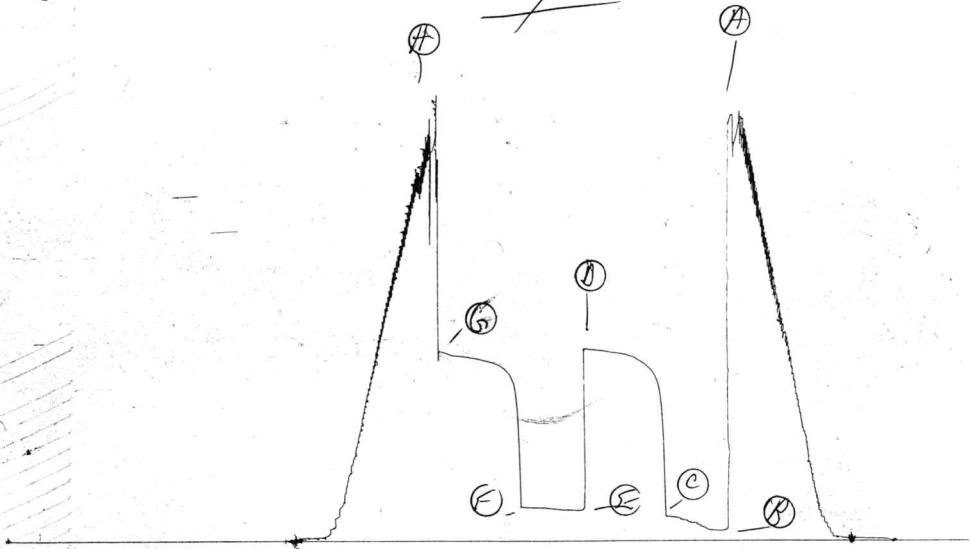


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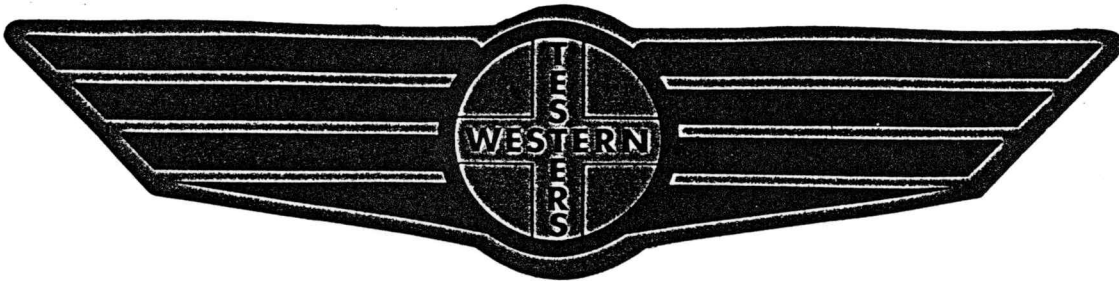
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

COMPANY KIWANDA ENERGY, INC. LEASE & WELL NO. RENNER #1 SEC. 21 TWP. 9S RGE. 32W TEST NO. 3 DATE 10/11/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-11-91  
CUSTOMER : KIWANDA ENERGY INC.  
WELL : 1 TEST: 3  
ELEVATION : 3092 GR  
SECTION : 21  
RANGE : 32W COUNTY : THOMAS  
GAUGE SN# : 6233 RANGE : 4000  
TICKET : 17476  
LEASE : RENNER  
GEOLOGIST : ALBERTS  
FORMATION : L KANSAS CITY L  
TOWNSHIP : 9S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4340 TO : 4380 TOTAL DEPTH : 4380  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4335 SIZE : 6.75  
PACKER DEPTH : 4340 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 3  
MUD TYPE : MONPAC VISCOSITY : 55  
WEIGHT : 9.1 WATER LOSS (CC) : 9.6  
CHLORIDES (PPM) : 3400  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 236 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 657 FT I.D. inch : 3.20  
DRILL PIPE LENGTH : 3427 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 40 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 WEAK STEADY BLOW  
BLOW COMMENT #2 : 1/2 INCH IN WATER.  
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW.  
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: MUD-VERY FEW OIL SPOTS-LESS THAN 1%

Total Barrels Fluid = 0.02  
Total Fluid Prod Rate = 0.56 BFPD  
Indicated Wtr Rate = 0.06 BWPD

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

SET PACKER(S) :	5:25 A.M.	TIME STARTED OFF BOTTOM :	7:55 A.M.
WELL TEMPERATURE :	129		
INITIAL HYDROSTATIC PRESSURE		(A)	2175
INITIAL FLOW PERIOD MIN:	30	(B)	37 PSI TO (C) : 37
INITIAL CLOSED IN PERIOD MIN:	45	(D)	41
FINAL FLOW PERIOD MIN:	30	(E)	41 PSI TO (F) : 41
FINAL CLOSED IN PERIOD MIN:	45	(G)	42
FINAL HYDROSTATIC PRESSURE		(H)	2102

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : KIWANDA ENERGY INC.  
RIG : THOMAS-KANSAS  
FIELD : RENNER  
WELL : 1  
DATE : 10-11-91  
GAUGE NO : 6233

OPERATIONAL COMMENTS

COMPANY : KIWANDA ENERGY INC.  
WELL : 1  
GAUGE # : 6233  
DATE : 11/10/91

FIELD : RENNER  
JOB # : 17476  
DEPTH : 4380  
TEST :

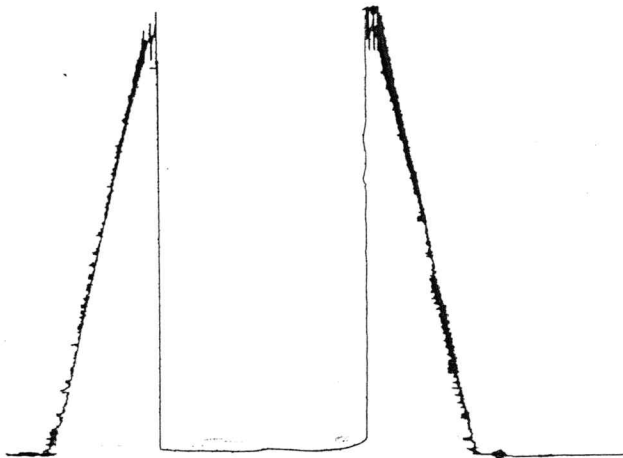
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	5:25: 0	0.000	37.000	129.00	0.000
3	5:29:59	0.083	37.000	129.00	0.000
4	5:35: 0	0.167	37.000	129.00	0.000
5	5:40: 0	0.250	37.000	129.00	0.000
6	5:44:59	0.333	37.000	129.00	0.000
7	5:50: 0	0.417	37.000	129.00	0.000
8	5:55: 0	0.500	37.000	129.00	0.000
INITIAL SHUT-IN PERIOD					
9	5:58: 0	0.550	37.000	129.00	0.000
10	6: 1: 0	0.600	37.000	129.00	0.000
11	6: 4: 0	0.650	38.000	129.00	1.000
12	6: 7: 0	0.700	39.000	129.00	1.000
13	6:10: 0	0.750	39.000	129.00	0.000
14	6:13: 0	0.800	39.000	129.00	0.000
15	6:16: 0	0.850	40.000	129.00	1.000
16	6:19: 0	0.900	40.000	129.00	0.000
17	6:22: 0	0.950	40.000	129.00	0.000
18	6:25: 0	1.000	40.000	129.00	0.000
19	6:28: 0	1.050	40.000	129.00	0.000
20	6:31: 0	1.100	41.000	129.00	1.000
21	6:34: 0	1.150	41.000	129.00	0.000
22	6:37: 0	1.200	41.000	129.00	0.000
23	6:40: 0	1.250	41.000	129.00	0.000
FINAL FLOW PERIOD					
24	6:41: 0	1.267	41.000	129.00	0.000
25	6:44:59	1.333	41.000	129.00	0.000
26	6:50: 0	1.417	41.000	129.00	0.000
27	6:55: 0	1.500	41.000	129.00	0.000
28	6:59:59	1.583	41.000	129.00	0.000
29	7: 5: 0	1.667	41.000	129.00	0.000
30	7:10: 0	1.750	41.000	129.00	0.000
FINAL SHUT-IN PERIOD					
31	7:13: 0	1.800	41.000	129.00	0.000
32	7:16: 0	1.850	41.000	129.00	0.000
33	7:19: 0	1.900	41.000	129.00	0.000
34	7:22: 0	1.950	41.000	129.00	0.000
35	7:25: 0	2.000	41.000	129.00	0.000
36	7:28: 0	2.050	41.000	129.00	0.000
37	7:31: 0	2.100	41.000	129.00	0.000
38	7:34: 0	2.150	41.000	129.00	0.000
39	7:37: 0	2.200	41.000	129.00	0.000
40	7:40: 0	2.250	41.000	129.00	0.000
41	7:43: 0	2.300	41.000	129.00	0.000
42	7:46: 0	2.350	42.000	129.00	1.000
43	7:49: 0	2.400	42.000	129.00	0.000
44	7:52: 0	2.450	42.000	129.00	0.000
45	7:55: 0	2.500	42.000	129.00	0.000

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JKH 17476

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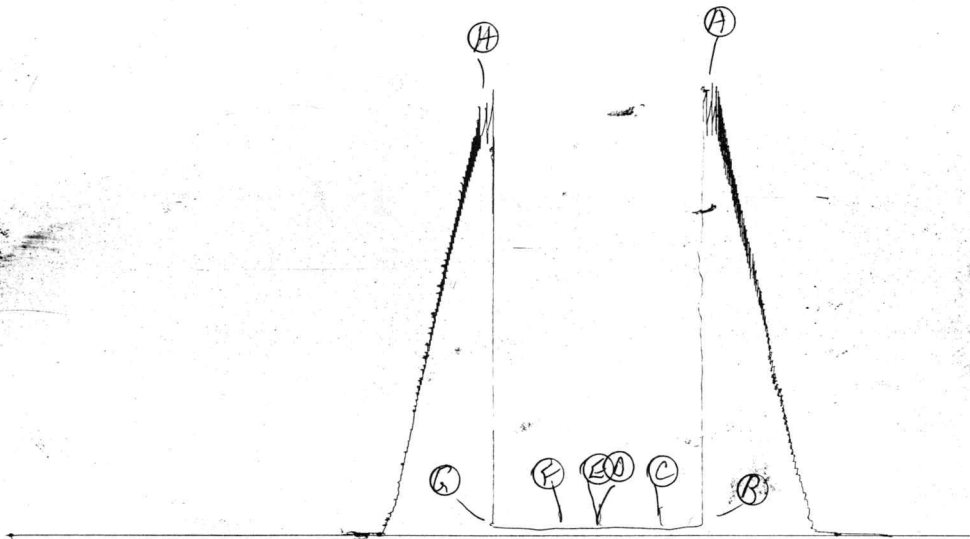


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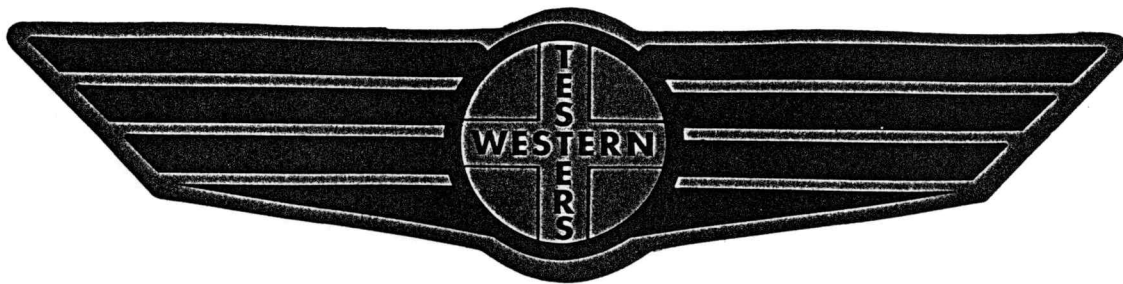
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY KIWANDA ENERGY, INC.

LEASE & WELL NO. RENNER #1

SEC. 21 TWP. 9S RGE. 32W TEST NO. 4

DATE 10/12/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-12-91  
CUSTOMER : KIWANDA ENERGY INC.  
WELL : 1 TEST: 4  
ELEVATION : 3097 KB  
SECTION : 21  
RANGE : 32W COUNTY : THOMAS  
GAUGE SN# : 6233 RANGE : 4000  
TICKET : 17477  
LEASE : RENNER  
GEOLOGIST : ALBERTS  
FORMATION : PAW-FT SC  
TOWNSHIP : 9S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4478 TO : 4575 TOTAL DEPTH : 4575  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4473 SIZE : 6.75  
PACKER DEPTH : 4478 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 3  
MUD TYPE : MONPAC VISCOSITY : 43  
WEIGHT : 9.0 WATER LOSS (CC) : 12.0  
CHLORIDES (PPM) : 1500  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 236 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 594 FT I.D. inch : 3.20  
DRILL PIPE LENGTH : 3628 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 97 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 WEAK BLOW-DIED IN 20 MINUTES.  
BLOW COMMENT #2 : FINAL FLOW PERIOD NO BLOW.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: MUD

Total Barrels Fluid = 0.09  
Total Fluid Prod Rate = 2.26 BFPD  
Indicated Wtr Rate = 0.23 BWPD

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

SET PACKER(S) : 2:25 A.M.

TIME STARTED OFF BOTTOM : 4:25 A.M.

WELL TEMPERATURE : 129

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 33

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 33

FINAL HYDROSTATIC PRESSURE

(A) 2257

(B) 46

(D) 757

(E) 51

(G) 561

(H) 2223

PSI TO (C) : 46

PSI TO (F) : 51

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : KIWANDA ENERGY INC.  
RIG : THOMAS-KANSAS  
FIELD : RENNER  
WELL : 1  
DATE : 10-12-91  
GAUGE NO : 6233

OPERATIONAL COMMENTS

COMPANY : KIWANDA ENERGY INC.  
 WELL : 1  
 GAUGE # : 6233  
 DATE : 12/10/91

FIELD : RENNER  
 JOB # : 17477  
 DEPTH : 4575  
 TEST :

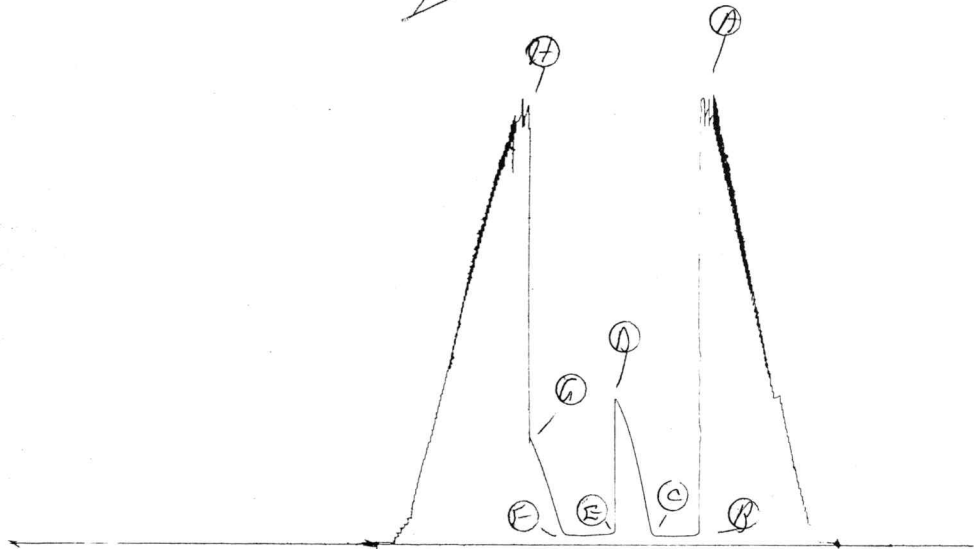
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2:25: 0	0.000	46.000	129.00	0.000
3	2:29:59	0.083	46.000	129.00	0.000
4	2:35: 0	0.167	46.000	129.00	0.000
5	2:40: 0	0.250	46.000	129.00	0.000
6	2:44:59	0.333	46.000	129.00	0.000
7	2:50: 0	0.417	46.000	129.00	0.000
8	2:55: 0	0.500	46.000	129.00	0.000
INITIAL SHUT-IN PERIOD					
9	2:58: 0	0.550	51.000	129.00	5.000
10	3: 1: 0	0.600	100.000	129.00	49.000
11	3: 4: 0	0.650	195.000	129.00	95.000
12	3: 7: 0	0.700	296.000	129.00	101.000
13	3:10: 0	0.750	399.000	129.00	103.000
14	3:13: 0	0.800	480.000	129.00	81.000
15	3:16: 0	0.850	566.000	129.00	86.000
16	3:19: 0	0.900	626.000	129.00	60.000
17	3:22: 0	0.950	690.000	129.00	64.000
18	3:25: 0	1.000	735.000	129.00	45.000
19	3:28: 0	1.050	757.000	129.00	22.000
FINAL FLOW PERIOD					
20	3:29: 0	1.067	51.000	129.00	-706.000
21	3:32:59	1.133	51.000	129.00	0.000
22	3:38: 0	1.217	51.000	129.00	0.000
23	3:43: 0	1.300	51.000	129.00	0.000
24	3:47:59	1.383	51.000	129.00	0.000
25	3:53: 0	1.467	51.000	129.00	0.000
26	3:58: 0	1.550	51.000	129.00	0.000
FINAL SHUT-IN PERIOD					
27	4: 0:59	1.600	53.000	129.00	2.000
28	4: 4: 0	1.650	55.000	129.00	2.000
29	4: 6:59	1.700	83.000	129.00	28.000
30	4:10: 0	1.750	146.000	129.00	63.000
31	4:13: 0	1.800	222.000	129.00	76.000
32	4:16: 0	1.850	290.000	129.00	68.000
33	4:19: 0	1.900	351.000	129.00	61.000
34	4:22: 0	1.950	412.000	129.00	61.000
35	4:25: 0	2.000	465.000	129.00	53.000
36	4:28: 0	2.050	522.000	129.00	57.000
37	4:31: 0	2.100	561.000	129.00	39.000

WESTERN TESTING CO. INC.

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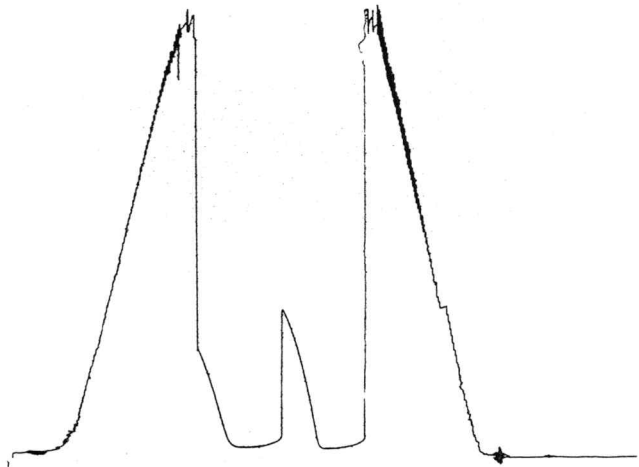


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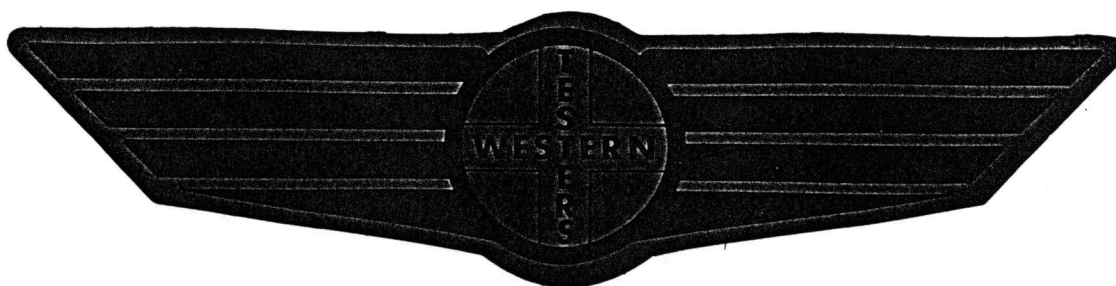
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

COMPANY KIWANDA ENERGY, INC. LEASE & WELL NO. RENNER # 1 SEC. 21 TWP. 9S RGE. 32W TEST NO. 5 DATE 10/12/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-12-91  
CUSTOMER : KIWANDA ENERGY INC.  
WELL : 1 TEST: 5  
ELEVATION : 3097 KB  
SECTION : 21  
RANGE : 32W COUNTY : THOMAS  
GAUGE SN# : 6233 RANGE : 4000  
TICKET : 17478  
LEASE : RENNER  
GEOLOGIST : ALBERTS  
FORMATION : JOHNSON  
TOWNSHIP : 9S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4570 TO : 4659 TOTAL DEPTH : 4659  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4565 SIZE : 6.75  
PACKER DEPTH : 4570 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 3  
MUD TYPE : MONPAC VISCOSITY : 48  
WEIGHT : 9.2 WATER LOSS (CC) : 10.4  
CHLORIDES (PPM) : 2000  
JARS-MAKE :  
DID WELL FLOW ? : NO SERIAL NUMBER :  
REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 236 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 594 FT I.D. inch : 3.20  
DRILL PIPE LENGTH : 3720 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 89 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 WEAK BLOW-1/4 INCH-DIED  
BLOW COMMENT #2 : IN 20 MINUTES.  
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW.  
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: MUD-FEW OIL SPOTS IN TOP OF TOOL

Total Barrels Fluid = 0.09  
Total Fluid Prod Rate = 2.26 BFPD  
Indicated Wtr Rate = 0.23 BWPD

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

SET PACKER(S) :	6:35 P.M.	TIME STARTED OFF BOTTOM :	8:35 P.M.
WELL TEMPERATURE :	131		
INITIAL HYDROSTATIC PRESSURE		(A)	2370
INITIAL FLOW PERIOD MIN:	30	(B)	49 PSI TO (C) : 49
INITIAL CLOSED IN PERIOD MIN:	33	(D)	263
FINAL FLOW PERIOD MIN:	30	(E)	51 PSI TO (F) : 51
FINAL CLOSED IN PERIOD MIN:	27	(G)	71
FINAL HYDROSTATIC PRESSURE		(H)	2296

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : KIWANDA ENERGY INC.  
RIG : THOMAS-KANSAS  
FIELD : RENNER  
WELL : 1  
DATE : 10-12-91  
GAUGE NO : 6233

OPERATIONAL COMMENTS

COMPANY : KIWANDA ENERGY INC.  
 WELL : 1  
 GAUGE # : 6233  
 DATE : 12/10/91

FIELD : RENNER  
 JOB # : 17478  
 DEPTH : 4659  
 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 PERIOD					
2	6:35: 0	0.000	49.000	131.00	0.000
3	6:39:59	0.083	49.000	131.00	0.000
4	6:45: 0	0.167	49.000	131.00	0.000
5	6:50: 0	0.250	49.000	131.00	0.000
6	6:54:59	0.333	49.000	131.00	0.000
7	7: 0: 0	0.417	49.000	131.00	0.000
8	7: 5: 0	0.500	49.000	131.00	0.000
INITIAL SHUT-IN PERIOD					
9	7: 8: 0	0.550	50.000	131.00	1.000
10	7:11: 0	0.600	53.000	131.00	3.000
11	7:14: 0	0.650	55.000	131.00	2.000
12	7:17: 0	0.700	62.000	131.00	7.000
13	7:20: 0	0.750	72.000	131.00	10.000
14	7:23: 0	0.800	86.000	131.00	14.000
15	7:26: 0	0.850	112.000	131.00	26.000
16	7:29: 0	0.900	143.000	131.00	31.000
17	7:32: 0	0.950	181.000	131.00	38.000
18	7:35: 0	1.000	220.000	131.00	39.000
19	7:38: 0	1.050	263.000	131.00	43.000
FINAL FLOW PERIOD					
20	7:39: 0	1.067	51.000	131.00	-212.000
21	7:42:59	1.133	51.000	131.00	0.000
22	7:48: 0	1.217	51.000	131.00	0.000
23	7:53: 0	1.300	51.000	131.00	0.000
24	7:57:59	1.383	51.000	131.00	0.000
25	8: 3: 0	1.467	51.000	131.00	0.000
26	8: 8: 0	1.550	51.000	131.00	0.000
FINAL SHUT-IN PERIOD					
27	8:11: 0	1.600	51.000	131.00	0.000
28	8:14: 0	1.650	51.000	131.00	0.000
29	8:17: 0	1.700	51.000	131.00	0.000
30	8:20: 0	1.750	52.000	131.00	1.000
31	8:23: 0	1.800	56.000	131.00	4.000
32	8:26: 0	1.850	59.000	131.00	3.000
33	8:29: 0	1.900	63.000	131.00	4.000
34	8:32: 0	1.950	66.000	131.00	3.000
35	8:35: 0	2.000	71.000	131.00	5.000

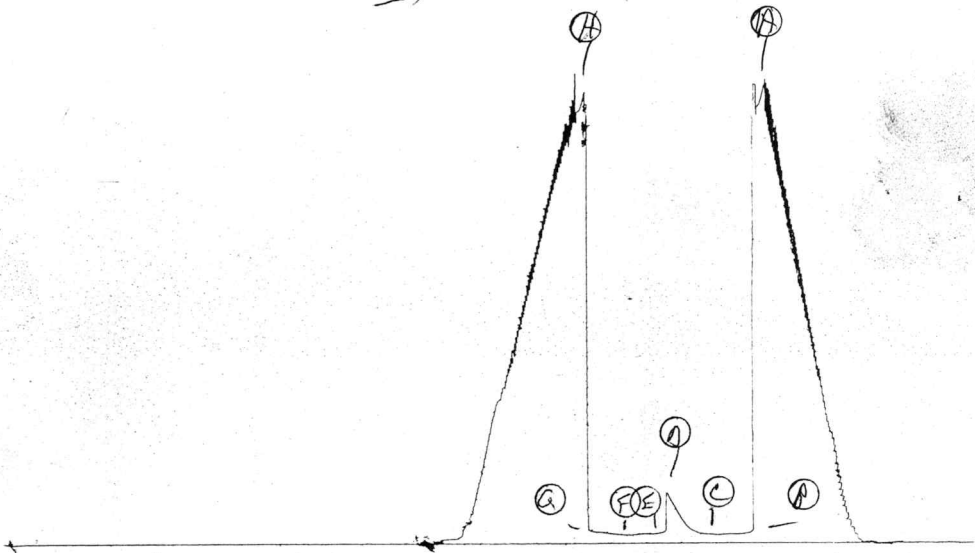
WESTERN TESTING CO. INC.

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