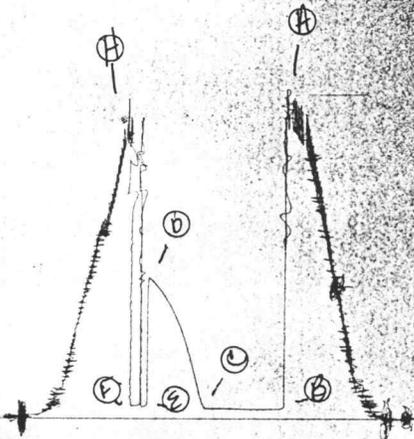


JK # 14502

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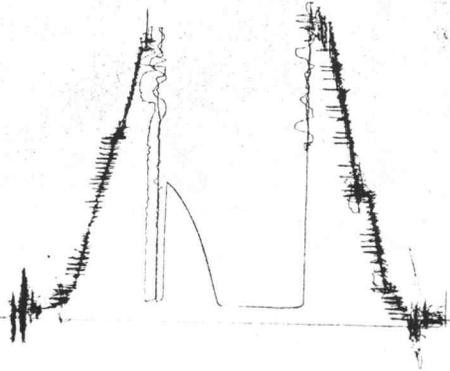
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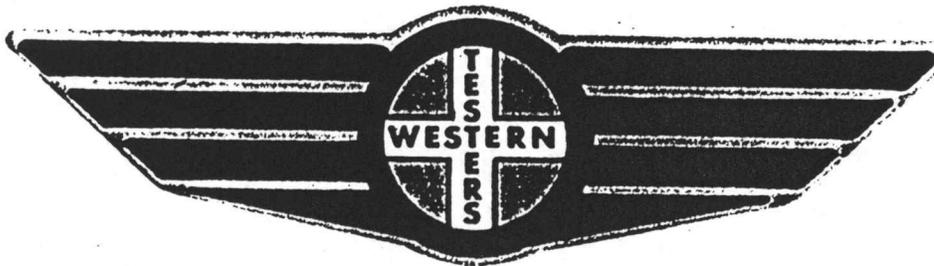
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JOHN J DARRAH, JR. LEASE & WELL NO. KICE/SVOBODA SEC. 17 TWP. 16S RGE. 10W TEST NO. 1 DATE 6/27/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 6-27-88 TICKET : 14502
CUSTOMER : JOHN JAY DARRAH JR. LEASE : KICE/SVOBODA
WELL : #1 TEST: 1 GEOLOGIST : B FUHR
ELEVATION : NA FORMATION : ARBUCKLE
SECTION : 17 TOWNSHIP : 16S
RANGE : 10W COUNTY : ELLSWORTH STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3328 TO : 3393 TOTAL DEPTH : 3393

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3328 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1
MUD TYPE : CHEMICAL VISCOSITY : 48
WEIGHT : 9.1 WATER LOSS (CC) : 17
CHLORIDES (PPM) : NC
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3013 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 65 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 THROUGHOUT-3" TO 2" BLOW.
BLOW COMMENT #2 : FINAL FLOW-VERY WEAK BLOW-FLUSHED TOOL.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: CLEAN OIL GRAVITY 46
RECOVERED : 80 FT OF: OIL CUT MUD
5% OIL-95% MUD

Total Barrels Fluid = 0.40
Total Fluid Prod Rate = 8.22 BFPD
Indicated Oil Rate = 0.87 BOPD
Indicated Wtr Rate = 0.74 BWPD
Corrected Oil Rate = 5.32 BOPD
Corrected Wtr Rate = 4.50 BWPD

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

SET PACKER(S) : 12:00 AM

TIME STARTED OFF BOTTOM : 1:58 AM

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1639

INITIAL FLOW PERIOD MIN: 60

(B) 50 PSI TO (C) : 54

INITIAL CLOSED IN PERIOD MIN: 42

(D) 765

FINAL FLOW PERIOD MIN: 10

(E) 81 PSI TO (F) : 69

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1556

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : JOHN JAY DARRAH JR.
RIG : ELLSWORTH-KANSAS
FIELD : KICE/SVOBODA
WELL : #1
DATE : 6-27-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : JOHN JAY DARRAH JR.

WELL : #1

GAUGE # : 10270

DATE : 27/ 6/88

FIELD : KICE/SVOBODA

JOB # : 14502

DEPTH : 3393

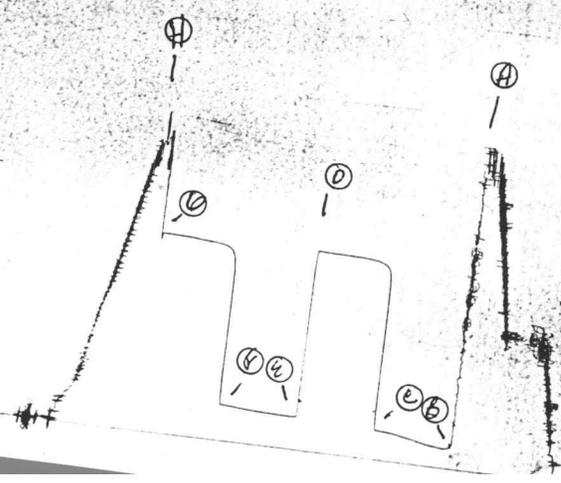
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(i-1)
1	12: 0: 0	0.000	50.000	110.00	0.000
2	12: 4:59	0.083	50.000	110.00	0.000
3	12:10: 0	0.167	50.000	110.00	0.000
4	12:15: 0	0.250	50.000	110.00	0.000
5	12:19:59	0.333	50.000	110.00	0.000
6	12:25: 0	0.417	50.000	110.00	0.000
7	12:30: 0	0.500	50.000	110.00	0.000
8	12:34:59	0.583	52.000	110.00	0.000
9	12:40: 0	0.667	53.000	110.00	2.000
10	12:45: 0	0.750	54.000	110.00	1.000
11	12:49:59	0.833	54.000	110.00	1.000
12	12:55: 0	0.917	54.000	110.00	0.000
13	13: 0: 0	1.000	54.000	110.00	0.000
14	13: 2:59	1.050	54.000	110.00	0.000
15	13: 6: 0	1.100	97.000	110.00	43.000
16	13: 9: 0	1.150	179.000	110.00	82.000
17	13:12: 0	1.200	262.000	110.00	83.000
18	13:15: 0	1.250	343.000	110.00	81.000
19	13:18: 0	1.250	415.000	110.00	72.000
20	13:21: 0	1.300	481.000	110.00	66.000
21	13:24: 0	1.350	536.000	110.00	55.000
22	13:27: 0	1.400	584.000	110.00	48.000
23	13:30: 0	1.450	626.000	110.00	42.000
24	13:33: 0	1.500	662.000	110.00	36.000
25	13:33: 0	1.550	696.000	110.00	34.000
26	13:36: 0	1.600	720.000	110.00	24.000
27	13:39: 0	1.650	746.000	110.00	26.000
28	13:42: 0	1.700	765.000	110.00	19.000
29	13:43: 0	1.717	81.000	110.00	-684.000
30	13:46:59	1.783	72.000	110.00	-9.000
30	13:52: 0	1.867	69.000	110.00	-3.000

WESTERN TESTING CO. INC.

JK # 14503
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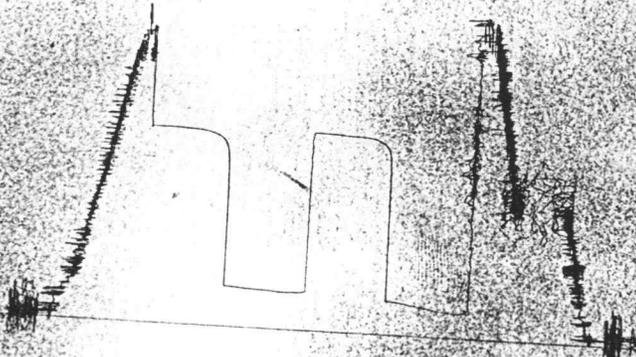
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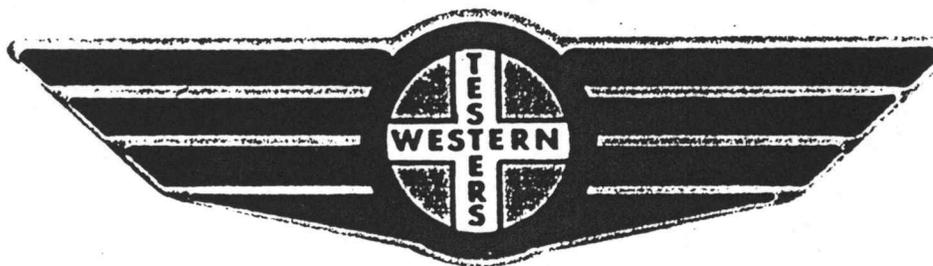
JK #14503

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

JOHN JAY DARRAH JR.

LEASE & WELL NO.

KICE/SVOBODA #1

SEC. 17

TWP.

16S

RGE.

10W

TEST NO.

2

DATE

6/28/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 6-28-88 TICKET : 14503
CUSTOMER : JOHN JAY DARRAH JR. LEASE : KICE/SVOBODA
WELL : #1 TEST: 1 GEOLOGIST : B FUHR
ELEVATION : NA FORMATION : ARBUCKLE
SECTION : 17 TOWNSHIP : 16S
RANGE : 10W COUNTY : ELLSWORTH STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3386 TO : 3403 TOTAL DEPTH : 3403

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3386 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1
MUD TYPE : CHEMICAL VISCOSITY : NC
WEIGHT : NC WATER LOSS (CC) : NC
CHLORIDES (PPM) : NC
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3071 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 17 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 BUILDING TO A GOOD 7" BLOW.
BLOW COMMENT #2 : FINAL FLOW-WEAK 2" BLOW BUILDING TO A GOOD 6" BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: CLEAN OIL GRAVITY 46
RECOVERED : 150 FT OF: OIL CUT MUDDY WATER
4% OIL-20% MUD-76% WTR
RECOVERED : 240 FT OF: WATER

CHLORIDES: 13000 PPM

Total Barrels Fluid = 2.95
Total Fluid Prod Rate = 35.44 BFPD
Indicated Oil Rate = 2.25 BOPD
Indicated Wtr Rate = 30.51 BWPD
Corrected Oil Rate = 23.29 BOPD
Corrected Wtr Rate = 316.19 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 60 FEET OF GAS ABOVE FLUID.
REMARK 3 : SLID TOOL APPROXIMATELY 10 FEET TO BOTTOM.
REMARK 4 :

SET PACKER(S) : 11:05 AM TIME STARTED OFF BOTTOM : 3:05 PM
WELL TEMPERATURE : 110
INITIAL HYDROSTATIC PRESSURE (A) 1685
INITIAL FLOW PERIOD MIN: 60 (B) 105 PSI TO (C) : 160
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1102
FINAL FLOW PERIOD MIN: 60 (E) 181 PSI TO (F) : 198
FINAL CLOSED IN PERIOD MIN: 60 (G) 1097
FINAL HYDROSTATIC PRESSURE (H) 1635

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : JOHN JAY DARRAH JR.
RIG : ELLSWORTH-KANSAS
FIELD : KICE/SVOBODA
WELL : #1
DATE : 6-28-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 60 FEET OF GAS ABOVE FLUID.
SLID TOOL APPROXIMATELY 10 FEET TO BOTTOM.

COMPANY : JOHN JAY DARRAH JR.
WELL : #1
GAUGE # : 10270
DATE : 28/ 6/88

FIELD : KICE/SVOBODA
JOB # : 14503
DEPTH : 3403
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: 5: 0	0.000	105.000	110.00	0.000
2	11: 9:59	0.083	105.000	110.00	0.000
3	11:15: 0	0.167	105.000	110.00	0.000
4	11:20: 0	0.250	108.000	110.00	3.000
5	11:24:59	0.333	115.000	110.00	7.000
6	11:30: 0	0.417	122.000	110.00	7.000
7	11:35: 0	0.500	129.000	110.00	7.000
8	11:39:59	0.583	139.000	110.00	10.000
9	11:45: 0	0.667	144.000	110.00	5.000
10	11:50: 0	0.750	151.000	110.00	7.000
11	11:54:59	0.833	155.000	110.00	4.000
12	12: 0: 0	0.917	158.000	110.00	3.000
13	12: 5: 0	1.000	160.000	110.00	2.000
14	12: 8: 0	1.050	1035.000	110.00	875.000
15	12:11: 0	1.100	1066.000	110.00	31.000
16	12:14: 0	1.150	1078.000	110.00	12.000
17	12:17: 0	1.200	1084.000	110.00	6.000
18	12:20: 0	1.250	1087.000	110.00	3.000
19	12:23: 0	1.300	1091.000	110.00	4.000
20	12:26: 0	1.350	1093.000	110.00	2.000
21	12:29: 0	1.400	1094.000	110.00	1.000
22	12:32: 0	1.450	1095.000	110.00	1.000
23	12:35: 0	1.500	1095.000	110.00	0.000
24	12:38: 0	1.550	1096.000	110.00	1.000
25	12:41: 0	1.600	1097.000	110.00	1.000
26	12:44: 0	1.650	1097.000	110.00	0.000
27	12:47: 0	1.700	1098.000	110.00	1.000
28	12:50: 0	1.750	1098.000	110.00	0.000
29	12:53: 0	1.800	1099.000	110.00	1.000
30	12:56: 0	1.850	1099.000	110.00	0.000
31	12:59: 0	1.900	1100.000	110.00	1.000
32	13: 2: 0	1.950	1101.000	110.00	1.000
33	13: 5: 0	2.000	1102.000	110.00	1.000
34	13: 6: 0	2.017	181.000	110.00	-921.000
35	13: 9:59	2.083	181.000	110.00	0.000
36	13:15: 0	2.167	181.000	110.00	0.000
37	13:20: 0	2.250	181.000	110.00	0.000
38	13:24:59	2.333	181.000	110.00	0.000
39	13:30: 0	2.417	182.000	110.00	1.000
40	13:35: 0	2.500	184.000	110.00	2.000
41	13:39:59	2.583	186.000	110.00	2.000
42	13:45: 0	2.667	189.000	110.00	3.000
43	13:50: 0	2.750	192.000	110.00	3.000
44	13:54:59	2.833	194.000	110.00	2.000
45	14: 0: 0	2.917	196.000	110.00	2.000
46	14: 5: 0	3.000	198.000	110.00	2.000
47	14: 8: 0	3.050	1021.000	110.00	823.000
48	14:11: 0	3.100	1056.000	110.00	35.000
49	14:14: 0	3.150	1071.000	110.00	15.000
50	14:17: 0	3.200	1077.000	110.00	6.000
51	14:20: 0	3.250	1080.000	110.00	3.000
52	14:23: 0	3.300	1082.000	110.00	2.000

COMPANY : JOHN JAY DARRAH JR.
WELL : #1
GAUGE # : 10270
DATE : 28/ 6/88

FIELD : KICE/SVOBODA
JOB # : 14503
DEPTH : 3403
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	14:26: 0	3.350	1084.000	110.00	2.000
54	14:29: 0	3.400	1086.000	110.00	2.000
55	14:32: 0	3.450	1088.000	110.00	2.000
56	14:35: 0	3.500	1090.000	110.00	2.000
57	14:38: 0	3.550	1092.000	110.00	2.000
58	14:41: 0	3.600	1094.000	110.00	2.000
59	14:44: 0	3.650	1095.000	110.00	1.000
60	14:47: 0	3.700	1096.000	110.00	1.000
61	14:50: 0	3.750	1097.000	110.00	1.000
62	14:53: 0	3.800	1097.000	110.00	0.000
63	14:56: 0	3.850	1097.000	110.00	0.000
64	14:59: 0	3.900	1097.000	110.00	0.000
65	15: 2: 0	3.950	1097.000	110.00	0.000
66	15: 5: 0	4.000	1097.000	110.00	0.000

WESTERN TESTING CO. INC.