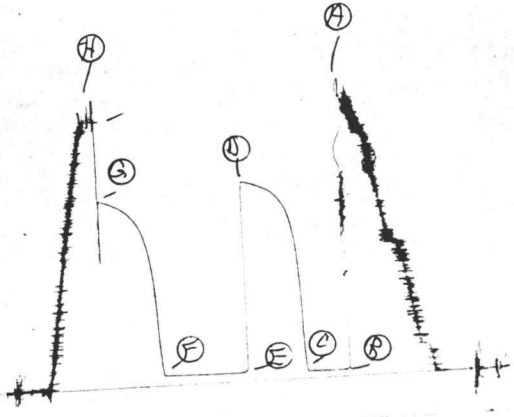


AK4 14239

I

0.57  
1.72



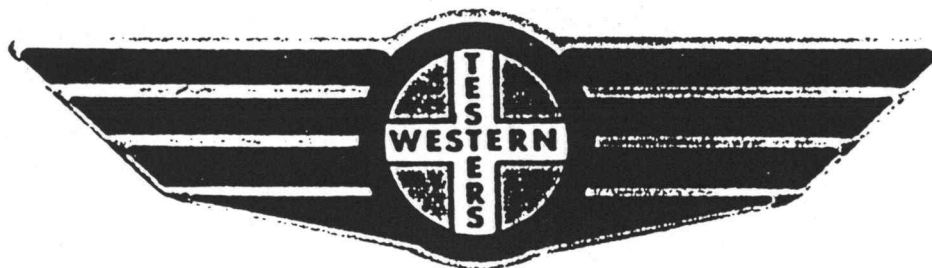
K4 14229

0

OSTA /  
13268



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

HUTCHINSON OIL COMPANY

LEASE & WELL NO.

HISS #3

SEC.

25

TWP.

19S

RGE.

14W

TEST NO.

1

DATE

12/15/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 12-15-88 TICKET : 14239  
CUSTOMER : HUTCHINSON OIL COMPANY LEASE : HISS  
WELL : #3 TEST: 1 GEOLOGIST : J BURK  
ELEVATION : 1863 GL FORMATION : TORONTO  
SECTION : 25 TOWNSHIP : 19S  
RANGE : 14W COUNTY : BARTON STATE : KANSAS  
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3092 TO : 3124 TOTAL DEPTH : 3124  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3087 SIZE : 6.63  
PACKER DEPTH : 3092 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMICAL VISCOSITY : 40  
WEIGHT : 9.1 WATER LOSS (CC) : 12.8  
CHLORIDES (PPM) : NA  
JARS-MAKE : - SERIAL NUMBER : -  
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3072 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 32 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 2" BLOW THROUGHOUT.  
BLOW COMMENT #2 : FINAL FLOW-WEAK 1" BLOW THROUGHOUT.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: WATER CUT MUD / SHOW OF OIL  
35% WTR-65% MUD

CHLORIDES: 24000 PPM

Total Barrels Fluid = 0.84  
Total Fluid Prod Rate = 13.47 BFPD  
Indicated Wtr Rate = 5.39 BWPD

REMARK 1 :  
REMARK 2 : SLID TOOL APPROXIMATELY 5' TO BOTTOM.  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) :	8:20 AM	TIME STARTED OFF BOTTOM :	11:20 AM
WELL TEMPERATURE :	97		
INITIAL HYDROSTATIC PRESSURE		(A)	1517
INITIAL FLOW PERIOD MIN:	30	(B)	42 PSI TO (C) : 42
INITIAL CLOSED IN PERIOD MIN:	45	(D)	1087
FINAL FLOW PERIOD MIN:	60	(E)	52 PSI TO (F) : 54
FINAL CLOSED IN PERIOD MIN:	45	(G)	1016
FINAL HYDROSTATIC PRESSURE		(H)	1471

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY  
RIG : BARTON-KANSAS  
FIELD : HISS  
WELL : #3  
DATE : 12-15-88  
GAUGE NO : 10270

OPERATIONAL COMMENTS

SLID TOOL APPROXIMATELY 5' TO BOTTOM.

COMPANY : HUTCHINSON OIL COMPANY  
 WELL : #3  
 GAUGE # : 10270  
 DATE : 15/12/88

FIELD : HISS  
 JOB # : 14239  
 DEPTH : 3124  
 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					
2	8:20:0	0.000	42.000	97.00	0.000
3	8:24:59	0.083	42.000	97.00	0.000
4	8:30:0	0.167	42.000	97.00	0.000
5	8:35:0	0.250	42.000	97.00	0.000
6	8:39:59	0.333	42.000	97.00	0.000
7	8:45:0	0.417	42.000	97.00	0.000
8	8:50:0	0.500	42.000	97.00	0.000
INITIAL SHUT-IN					
9	8:53:0	0.550	268.000	97.00	226.000
10	8:56:0	0.600	662.000	97.00	394.000
11	8:59:0	0.650	825.000	97.00	163.000
12	9:2:0	0.700	911.000	97.00	86.000
13	9:5:0	0.750	954.000	97.00	43.000
14	9:8:0	0.800	985.000	97.00	31.000
15	9:11:0	0.850	1010.000	97.00	25.000
16	9:14:0	0.900	1031.000	97.00	21.000
17	9:17:0	0.950	1044.000	97.00	13.000
18	9:20:0	1.000	1053.000	97.00	9.000
19	9:23:0	1.050	1061.000	97.00	8.000
20	9:26:0	1.100	1071.000	97.00	10.000
21	9:29:0	1.150	1076.000	97.00	5.000
22	9:32:0	1.200	1082.000	97.00	6.000
23	9:35:0	1.250	1087.000	97.00	5.000
FINAL FLOW					
24	9:36:0	1.267	52.000	97.00	-1035.000
25	9:39:59	1.333	52.000	97.00	0.000
26	9:45:0	1.417	52.000	97.00	0.000
27	9:50:0	1.500	52.000	97.00	0.000
28	9:54:59	1.583	52.000	97.00	0.000
29	10:0:0	1.667	52.000	97.00	0.000
30	10:5:0	1.750	52.000	97.00	0.000
31	10:9:59	1.833	52.000	97.00	0.000
32	10:15:0	1.917	53.000	97.00	1.000
33	10:20:0	2.000	53.000	97.00	0.000
34	10:24:59	2.083	54.000	97.00	1.000
35	10:30:0	2.167	54.000	97.00	0.000
36	10:35:0	2.250	54.000	97.00	0.000
FINAL SHUT-IN					
37	10:38:0	2.300	131.000	97.00	77.000
38	10:41:0	2.350	498.000	97.00	367.000
39	10:44:0	2.400	684.000	97.00	186.000
40	10:47:0	2.450	786.000	97.00	102.000
41	10:50:0	2.500	846.000	97.00	60.000
42	10:53:0	2.550	884.000	97.00	38.000
43	10:56:0	2.600	915.000	97.00	31.000
44	10:59:0	2.650	937.000	97.00	22.000
45	11:2:0	2.700	958.000	97.00	21.000
46	11:5:0	2.750	972.000	97.00	14.000
47	11:8:0	2.800	984.000	97.00	12.000
48	11:11:0	2.850	994.000	97.00	10.000

COMPANY : HUTCHINSON OIL COMPANY  
WELL : #3  
GAUGE # : 10270  
DATE : 15/12/88

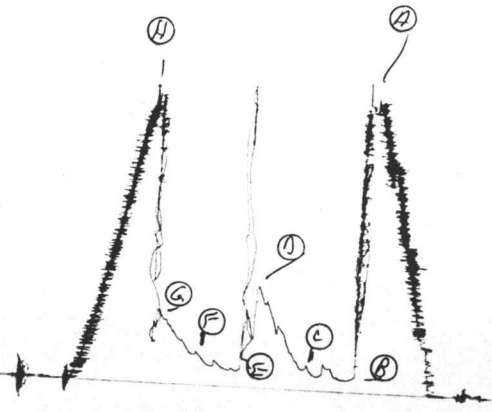
FIELD : HISS  
JOB # : 14239  
DEPTH : 3124  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	11:14: 0	2.900	1005.000	97.00	11.000
50	11:17: 0	2.950	1011.000	97.00	6.000
51	11:20: 0	3.000	1016.000	97.00	5.000

WESTERN TESTING CO. INC.

KT 14240  
Z

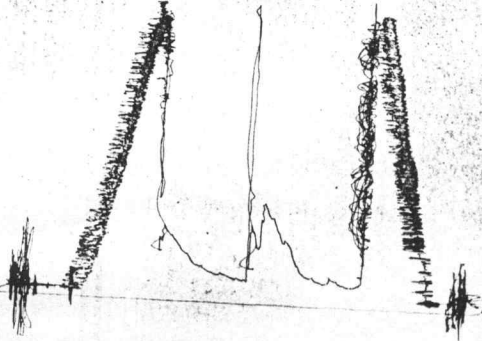
OSTA 2



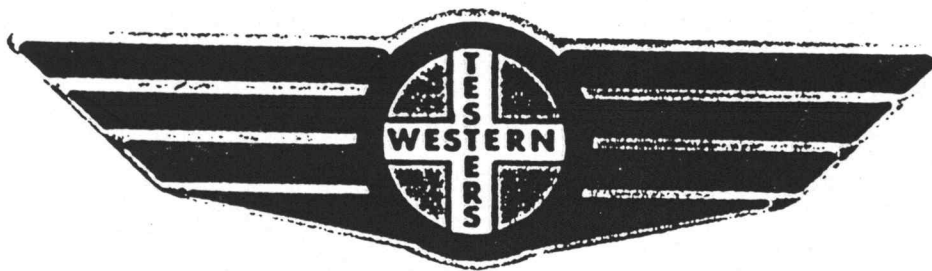
KT 14240

O

05722  
13268



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY LEASE & WELL NO. HISS #3 SEC. 25 TWP. 19S RGE. 14W TEST NO. 2 DATE 12/15/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 12-15-88  
CUSTOMER : HUTCHINSON OIL COMPANY  
WELL : #3 TEST: 2  
ELEVATION : 1863 GL  
SECTION : 25  
RANGE : 14W COUNTY : BARTON  
GAUGE SN# : 10270 RANGE : 4150  
TICKET : 14240  
LEASE : HISS  
GEOLOGIST : J BURK  
FORMATION : LANSING A  
TOWNSHIP : 11S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3197 TO : 3216 TOTAL DEPTH : 3216  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3192 SIZE : 6.63  
PACKER DEPTH : 3197 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMICAL VISCOSITY : 40  
WEIGHT : 9 WATER LOSS (CC) : 11.8  
CHLORIDES (PPM) : 4000  
JARS-MAKE : - SERIAL NUMBER : -  
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3177 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 19 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-1/2" BLOW DECREASED  
BLOW COMMENT #2 : TP 1/4"  
BLOW COMMENT #3 : FINAL FLOW-NO BLOW-FLUSHED TOOL-GOT A WEAK BLOW-DIED  
BLOW COMMENT #4 : IN 30 MINUTES.

RECOVERED : 60 FT OF: MUD

Total Barrels Fluid = 0.84  
Total Fluid Prod Rate = 20.20 BFPD  
Indicated Wtr Rate = 0.20 BWPD

REMARK 1 :  
REMARK 2 : SLID TOOL APPROXIMATELY 10' TO BOTTOM.  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) :	9:20 PM	TIME STARTED OFF BOTTOM :	11:50 PM
WELL TEMPERATURE :	100		
INITIAL HYDROSTATIC PRESSURE		(A)	1559
INITIAL FLOW PERIOD MIN:	30	(B)	70 PSI TO (C) : 70
INITIAL CLOSED IN PERIOD MIN:	45	(D)	550
FINAL FLOW PERIOD MIN:	30	(E)	155 PSI TO (F) : 138
FINAL CLOSED IN PERIOD MIN:	30	(G)	367
FINAL HYDROSTATIC PRESSURE		(H)	1528

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : HUTCHINSON OIL COMPANY  
RIG : BARTON-KANSAS  
FIELD : HISS  
WELL : #3  
DATE : 12-15-88  
GAUGE NO : 10270

OPERATIONAL COMMENTS

SLID TOOL APPROXIMATELY 10' TO BOTTOM.

COMPANY : HUTCHINSON OIL COMPANY  
 WELL : #3  
 GAUGE # : 10270  
 DATE : 15/12/88

FIELD : HISS  
 JOB # : 14240  
 DEPTH : 3216  
 TEST :

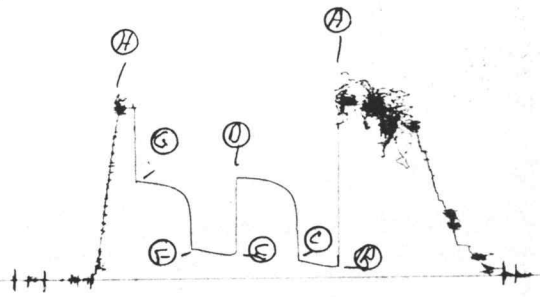
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
INITIAL FLOW					
2	9:20: 0	0.000	70.000	100.00	0.000
3	9:24:59	0.083	70.000	100.00	0.000
4	9:30: 0	0.167	70.000	100.00	0.000
5	9:35: 0	0.250	70.000	100.00	0.000
6	9:39:59	0.333	70.000	100.00	0.000
7	9:45: 0	0.417	70.000	100.00	0.000
8	9:50: 0	0.500	70.000	100.00	0.000
INITIAL SHUT-IN					
9	9:53: 0	0.550	97.000	100.00	27.000
10	9:56: 0	0.600	130.000	100.00	33.000
11	9:59: 0	0.650	117.000	100.00	-13.000
12	10: 2: 0	0.700	129.000	100.00	12.000
13	10: 5: 0	0.750	159.000	100.00	30.000
14	10: 8: 0	0.800	196.000	100.00	37.000
15	10:11: 0	0.850	244.000	100.00	48.000
16	10:14: 0	0.900	300.000	100.00	56.000
17	10:17: 0	0.950	325.000	100.00	25.000
18	10:20: 0	1.000	333.000	100.00	8.000
19	10:23: 0	1.050	399.000	100.00	66.000
20	10:26: 0	1.100	467.000	100.00	68.000
21	10:29: 0	1.150	479.000	100.00	12.000
22	10:32: 0	1.200	533.000	100.00	54.000
23	10:35: 0	1.250	550.000	100.00	17.000
FINAL FLOW					
24	10:36: 0	1.267	155.000	100.00	-395.000
25	10:39:59	1.333	88.000	100.00	-67.000
26	10:45: 0	1.417	91.000	100.00	3.000
27	10:50: 0	1.500	100.000	100.00	9.000
28	10:54:59	1.583	127.000	100.00	27.000
29	11: 0: 0	1.667	108.000	100.00	-19.000
30	11: 5: 0	1.750	138.000	100.00	30.000
FINAL SHUT-IN					
31	11: 8: 0	1.800	162.000	100.00	24.000
32	11:11: 0	1.850	166.000	100.00	4.000
33	11:14: 0	1.900	172.000	100.00	6.000
34	11:17: 0	1.950	200.000	100.00	28.000
35	11:20: 0	2.000	235.000	100.00	35.000
36	11:23: 0	2.050	247.000	100.00	12.000
37	11:26: 0	2.100	280.000	100.00	33.000
38	11:29: 0	2.150	308.000	100.00	28.000
39	11:32: 0	2.200	344.000	100.00	36.000
40	11:35: 0	2.250	367.000	100.00	23.000

WESTERN TESTING CO. INC.

KT 14241

I

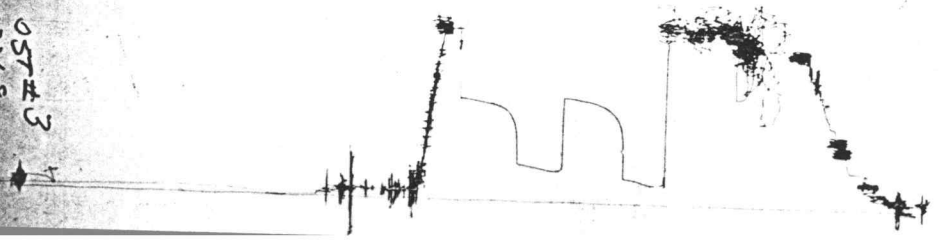
05743  
0820



RF 14241

0

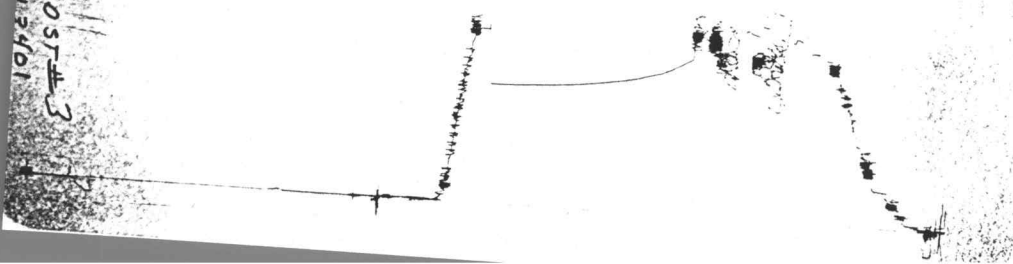
13268  
05743



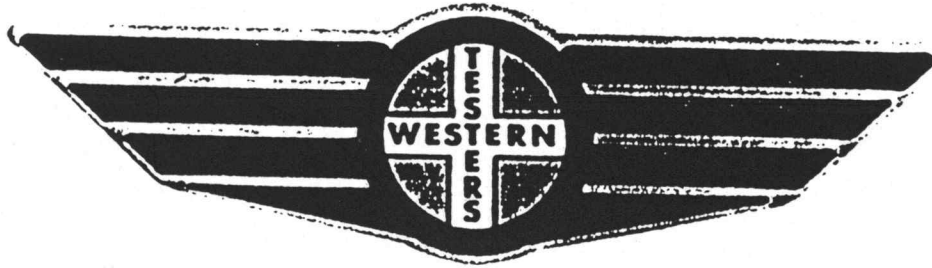
TK4 14241

Below Saddle

OST 3  
13401



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY LEASE & WELL NO. HISS #3 SEC. 25 TWP. 19S RGE. 14WTEST NO3 DATE 12/17/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 12-17-88  
CUSTOMER : HUTCHINSON OIL COMPANY  
WELL : #3 TEST: 3  
ELEVATION : 1863 GL  
SECTION : 25  
RANGE : 14W COUNTY : BARTON  
GAUGE SN# : 10270 RANGE : 4150  
TICKET : 14241  
LEASE : HISS  
GEOLOGIST : J BURK  
FORMATION : FT RILEY  
TOWNSHIP : 11S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 1850 TO : 1882 TOTAL DEPTH : 3525  
DEPTH OF SELECTIVE ZONE : 1950  
PACKER DEPTH : 1850 SIZE : 6.63  
PACKER DEPTH : 1882 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 RIG 11  
MUD TYPE : CHEMICAL VISCOSITY : 44  
WEIGHT : 9.3 WATER LOSS (CC) : 12  
CHLORIDES (PPM) : 5000  
JARS-MAKE : - SERIAL NUMBER : -  
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 410 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1420 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 32 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 DECREASED TO 2" OFF BOTTOM  
BLOW COMMENT #2 : OF BUCKET.  
BLOW COMMENT #3 : FINAL FLOW-WEAK BLOW.  
BLOW COMMENT #4 :

RECOVERED : 360 FT OF: MUDDY WATER  
30% MUD-70% WATER

CHLORIDES: 15000 PPM

Total Barrels Fluid = 1.69  
Total Fluid Prod Rate = 37.50 BFPD  
Indicated Wtr Rate = 26.25 BWPD

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

SET PACKER(S) : 1:15 PM

TIME STARTED OFF BOTTOM : 3:45 PM

WELL TEMPERATURE : 84

INITIAL HYDROSTATIC PRESSURE

(A) 934

INITIAL FLOW PERIOD MIN: 30

(B) 63 PSI TO (C) : 95

INITIAL CLOSED IN PERIOD MIN: 45

(D) 546

FINAL FLOW PERIOD MIN: 35

(E) 132 PSI TO (F) : 165

FINAL CLOSED IN PERIOD MIN: 42

(G) 531

FINAL HYDROSTATIC PRESSURE

(H) 925

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : HUTCHINSON OIL COMPANY  
RIG : BARTON-KANSAS  
FIELD : HISS  
WELL : #3  
DATE : 12-17-88  
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : HUTCHINSON OIL COMPANY  
 WELL : #3  
 GAUGE # : 10270  
 DATE : 17/12/88

FIELD : HISS  
 JOB # : 14241  
 DEPTH : 3525  
 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					
2	1:15:0	0.000	63.000	84.00	0.000
3	1:19:59	0.083	63.000	84.00	0.000
4	1:25:0	0.167	65.000	84.00	2.000
5	1:30:0	0.250	73.000	84.00	8.000
6	1:34:59	0.333	81.000	84.00	8.000
7	1:40:0	0.417	89.000	84.00	8.000
8	1:45:0	0.500	95.000	84.00	6.000
INITIAL SHUT-IN					
9	1:48:0	0.550	422.000	84.00	327.000
10	1:51:0	0.600	468.000	84.00	46.000
11	1:54:0	0.650	484.000	84.00	16.000
12	1:57:0	0.700	500.000	84.00	16.000
13	2:0:0	0.750	510.000	84.00	10.000
14	2:3:0	0.800	518.000	84.00	8.000
15	2:6:0	0.850	526.000	84.00	8.000
16	2:9:0	0.900	530.000	84.00	4.000
17	2:12:0	0.950	535.000	84.00	5.000
18	2:15:0	1.000	540.000	84.00	5.000
19	2:18:0	1.050	542.000	84.00	2.000
20	2:21:0	1.100	543.000	84.00	1.000
21	2:24:0	1.150	544.000	84.00	1.000
22	2:27:0	1.200	545.000	84.00	1.000
23	2:30:0	1.250	546.000	84.00	1.000
FINAL FLOW					
24	2:31:0	1.267	132.000	84.00	-414.000
25	2:34:59	1.333	132.000	84.00	0.000
26	2:40:0	1.417	134.000	84.00	2.000
27	2:45:0	1.500	140.000	84.00	6.000
28	2:49:59	1.583	147.000	84.00	7.000
29	2:55:0	1.667	155.000	84.00	8.000
30	3:0:0	1.750	163.000	84.00	8.000
31	3:4:59	1.833	165.000	84.00	2.000
FINAL SHUT-IN					
32	3:7:59	1.883	424.000	84.00	259.000
33	3:10:59	1.933	460.000	84.00	36.000
34	3:13:59	1.983	477.000	84.00	17.000
35	3:16:59	2.033	492.000	84.00	15.000
36	3:19:59	2.083	499.000	84.00	7.000
37	3:22:59	2.133	505.000	84.00	6.000
38	3:25:59	2.183	508.000	84.00	3.000
39	3:28:59	2.233	514.000	84.00	6.000
40	3:31:59	2.283	519.000	84.00	5.000
41	3:34:59	2.333	521.000	84.00	2.000
42	3:37:59	2.383	524.000	84.00	3.000
43	3:40:59	2.433	527.000	84.00	3.000
44	3:43:59	2.483	529.000	84.00	2.000
45	3:46:59	2.533	531.000	84.00	2.000