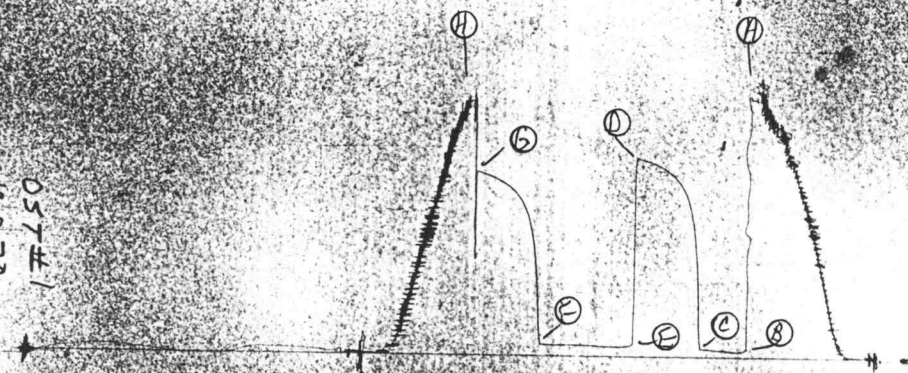


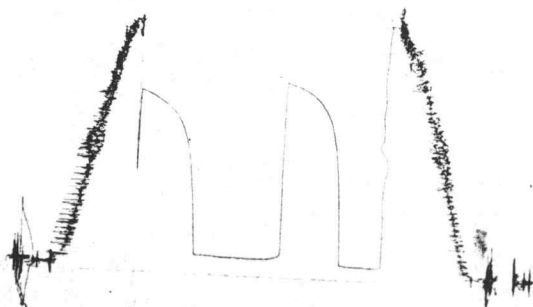
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY LEASE & WELL NO. CLINE 1-30 SEC. 30 TWP. 24S RGE. 12W TEST NO. 1 DATE 10/27/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10/27/88	TICKET	:	14110
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	CLINE
WELL	:	1-30 TEST: 1	GEOLOGIST	:	BURKE
ELEVATION	:	N/A	FORMATION	:	SEVERY SAND
SECTION	:	30	TOWNSHIP	:	24S
RANGE	:	12W	STATE	:	KANSAS
GAUGE SN#	:	10270	CLOCK	:	12
		COUNTY :	STAFFORD		
		RANGE :	4150		

INTERVAL FROM	:	3026	TO	:	3060	TOTAL DEPTH	:	3060
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3021	SIZE	:	6.63			
PACKER DEPTH	:	3026	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	36
WEIGHT	:	8.8	WATER LOSS (CC)	:	12.8
CHLORIDES (PPM)	:	N/C			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	60	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	2946	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	34	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 THROUGHOUT.
BLOW COMMENT #2 : 1/4 INCH TO 1 1/2 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD WEAK BLOW THROUGHOUT.
BLOW COMMENT #4 : 1 INCH BLOW.

RECOVERED : 100 FT OF: MUDDY WATER-35% MUD;65% WATER
RECOVERED : 0 FT OF: W/SHOW OF OIL ON TOP OF GRINDOUT

Total Barrels Fluid = 0.84
Total Fluid Prod Rate = 11.56 BFPD
Indicated Wtr Rate = 7.52 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 50000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	3:50 PM	TIME STARTED OFF BOTTOM :	6:50 PM
WELL TEMPERATURE :	99		
INITIAL HYDROSTATIC PRESSURE		(A)	1393
INITIAL FLOW PERIOD MIN:	35	(B)	29 PSI TO (C) : 43
INITIAL CLOSED IN PERIOD MIN:	48	(D)	1067
FINAL FLOW PERIOD MIN:	70	(E)	50 PSI TO (F) : 59
FINAL CLOSED IN PERIOD MIN:	48	(G)	989
FINAL HYDROSTATIC PRESSURE		(H)	1375

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : CLINE
WELL : 1-30
DATE : 10/27/88
GAUGE NO : 10270

OPERATIONAL COMMENTS

CHLORIDES 50000 PPM

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-30
GAUGE # : 10270
DATE : 27/10/88

FIELD : CLINE
JOB # : 14110
DEPTH : 3060
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 PERIOD					
2	3:50: 0	0.000	29.000	99.00	0.000
3	3:54:59	0.083	29.000	99.00	0.000
4	4: 0: 0	0.167	29.000	99.00	0.000
5	4: 5: 0	0.250	32.000	99.00	3.000
6	4: 9:59	0.333	35.000	99.00	3.000
7	4:15: 0	0.417	39.000	99.00	4.000
8	4:20: 0	0.500	41.000	99.00	2.000
9	4:24:59	0.583	43.000	99.00	2.000
INITIAL SHUT-IN PERIOD					
10	4:27:59	0.633	493.000	99.00	450.000
11	4:30:59	0.683	713.000	99.00	220.000
12	4:33:59	0.733	808.000	99.00	95.000
13	4:36:59	0.783	877.000	99.00	69.000
14	4:39:59	0.833	918.000	99.00	41.000
15	4:42:59	0.883	946.000	99.00	28.000
16	4:45:59	0.933	971.000	99.00	25.000
17	4:48:59	0.983	991.000	99.00	20.000
18	4:51:59	1.033	1006.000	99.00	15.000
19	4:54:59	1.083	1021.000	99.00	15.000
20	4:57:59	1.133	1032.000	99.00	11.000
21	5: 0:59	1.183	1040.000	99.00	8.000
22	5: 3:59	1.233	1049.000	99.00	9.000
23	5: 6:59	1.283	1056.000	99.00	7.000
24	5: 9:59	1.333	1062.000	99.00	6.000
25	5:12:59	1.383	1067.000	99.00	5.000
FINAL FLOW PERIOD					
26	5:14: 0	1.400	50.000	99.00	-1017.000
27	5:17:59	1.467	50.000	99.00	0.000
28	5:23: 0	1.550	50.000	99.00	0.000
29	5:27:59	1.633	50.000	99.00	0.000
30	5:32:59	1.717	52.000	99.00	2.000
31	5:38: 0	1.800	53.000	99.00	1.000
32	5:42:59	1.883	55.000	99.00	2.000
33	5:47:59	1.967	57.000	99.00	2.000
34	5:53: 0	2.050	58.000	99.00	1.000
35	5:57:59	2.133	58.000	99.00	0.000
36	6: 2:59	2.217	58.000	99.00	0.000
37	6: 8: 0	2.300	58.000	99.00	0.000
38	6:12:59	2.383	58.000	99.00	0.000
39	6:17:59	2.467	58.000	99.00	0.000
40	6:23: 0	2.550	59.000	99.00	1.000
FINAL SHUT-IN PERIOD					
41	6:26: 0	2.600	375.000	99.00	316.000
42	6:29: 0	2.650	610.000	99.00	235.000
43	6:32: 0	2.700	716.000	99.00	106.000
44	6:35: 0	2.750	783.000	99.00	67.000
45	6:38: 0	2.800	830.000	99.00	47.000
46	6:41: 0	2.850	860.000	99.00	30.000
47	6:44: 0	2.900	885.000	99.00	25.000
48	6:47: 0	2.950	905.000	99.00	20.000

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-30
GAUGE # : 10270
DATE : 27/10/88

FIELD : CLINE
JOB # : 14110
DEPTH : 3060
TEST :

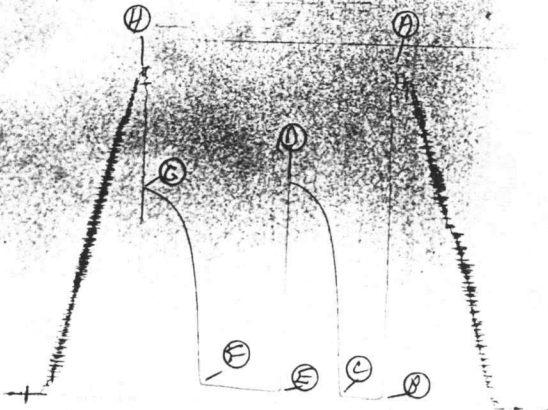
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	6:50: 0	3.000	918.000	99.00	13.000
50	6:53: 0	3.050	934.000	99.00	16.000
51	6:56: 0	3.100	946.000	99.00	12.000
52	6:59: 0	3.150	958.000	99.00	12.000
53	7: 2: 0	3.200	964.000	99.00	6.000
54	7: 5: 0	3.250	973.000	99.00	9.000
55	7: 8: 0	3.300	981.000	99.00	8.000
56	7:11: 0	3.350	989.000	99.00	8.000

WESTERN TESTING CO. INC.

KT 14111

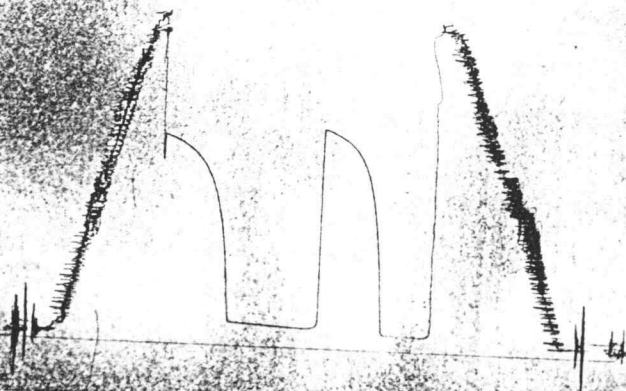
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY LEASE & WELL NO. CLINE 1-30 SEC. 30 TWP. 24S RGE. 12W TEST NO. 2 DATE 10/29/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10/29/88	TICKET	:	14111
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	CLINE
WELL	:	1-30 TEST: 2	GEOLOGIST	:	BURKE
ELEVATION	:	N/A	FORMATION	:	KANSAS CITY
SECTION	:	30	TOWNSHIP	:	24S
RANGE	:	12W	COUNTY	:	STAFFORD
Gauge SN#	:	10270	RANGE	:	4150
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3594	TO	:	3646	TOTAL DEPTH	:	3646
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3589	SIZE	:	6.63			
PACKER DEPTH	:	3594	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	40
WEIGHT	:	9.3	WATER LOSS (CC)	:	13.6
CHLORIDES (PPM)	:	N/C			
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	:	3574	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	52	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 BUILDING TO FAIR BLOW.
BLOW COMMENT #2 : 1 INCH TO 4 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD FAIR BLOW THROUGHOUT.
BLOW COMMENT #4 : 4 INCH BLOW.

RECOVERED : 30 FT OF: SLIGHTLY OIL CUT MUD
RECOVERED : 0 FT OF: 2% OIL; 1% WATER; 97% MUD
RECOVERED : 60 FT OF: SLIGHTLY OIL CUT MUD
RECOVERED : 0 FT OF: 1% OIL; 12% WATER; 87% MUD
RECOVERED : 60 FT OF: WATER CUT MUD
RECOVERED : 0 FT OF: 35% WATER; 65% MUD W/SHOW OF OIL

Total Barrels Fluid = 2.10
Total Fluid Prod Rate = 33.66 BFPD
Indicated Oil Rate = 0.27 BOPD
Indicated Wtr Rate = 6.40 BWPD
Corrected Oil Rate = 30.54 BOPD
Corrected Wtr Rate = 725.39 BWPD

REMARK 1 : 60 FT OF GAS ABOVE FLUID
REMARK 2 :
REMARK 3 : CHLORIDES 50000 PPM
REMARK 4 :

SET PACKER(S) : 3740 AM

TIME STARTED OFF BOTTOM : 6:40 AM

WELL TEMPERATURE : 109

INITIAL HYDROSTATIC PRESSURE

(A) 1784

INITIAL FLOW PERIOD MIN: 30

(B) 34 PSI TO (C) : 46

INITIAL CLOSED IN PERIOD MIN: 45

(D) 1196

FINAL FLOW PERIOD MIN: 60

(E) 60 PSI TO (F) : 85

FINAL CLOSED IN PERIOD MIN: 48

(G) 1143

FINAL HYDROSTATIC PRESSURE

(H) 1784

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : CLINE
WELL : 1-30
DATE : 10/29/88
GAUGE NO : 10270

OPERATIONAL COMMENTS

60 FT OF GAS ABOVE FLUID

CHLORIDES 50000 PPM

COMPANY : HUTCHINSON OIL COMPANY

WELL : 1-30

GAUGE # : 10270

DATE : 29/10/88

FIELD : CLINE

JOB # : 14111

DEPTH : 3646

TEST : 60 FT OF GAS ABOVE FLUID

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	3:40: 0	0.000	34.000	109.00	0.000
3	3:44:59	0.083	34.000	109.00	0.000
4	3:50: 0	0.167	34.000	109.00	0.000
5	3:55: 0	0.250	38.000	109.00	4.000
6	3:59:59	0.333	41.000	109.00	3.000
7	4: 5: 0	0.417	45.000	109.00	4.000
8	4:10: 0	0.500	46.000	109.00	1.000
INITIAL SHUT-IN PERIOD					
9	4:13: 0	0.550	172.000	109.00	126.000
10	4:16: 0	0.600	555.000	109.00	383.000
11	4:19: 0	0.650	755.000	109.00	200.000
12	4:22: 0	0.700	887.000	109.00	132.000
13	4:25: 0	0.750	971.000	109.00	84.000
14	4:28: 0	0.800	1028.000	109.00	57.000
15	4:31: 0	0.850	1068.000	109.00	40.000
16	4:34: 0	0.900	1098.000	109.00	30.000
17	4:37: 0	0.950	1124.000	109.00	26.000
18	4:40: 0	1.000	1141.000	109.00	17.000
19	4:43: 0	1.050	1158.000	109.00	17.000
20	4:46: 0	1.100	1174.000	109.00	16.000
21	4:49: 0	1.150	1185.000	109.00	11.000
22	4:52: 0	1.200	1192.000	109.00	7.000
23	4:55: 0	1.250	1196.000	109.00	4.000
FINAL FLOW PERIOD					
24	4:56: 0	1.267	60.000	109.00	-1136.000
25	4:59:59	1.333	60.000	109.00	0.000
26	5: 5: 0	1.417	63.000	109.00	3.000
27	5:10: 0	1.500	65.000	109.00	2.000
28	5:14:59	1.583	67.000	109.00	2.000
29	5:20: 0	1.667	68.000	109.00	1.000
30	5:25: 0	1.750	70.000	109.00	2.000
31	5:29:59	1.833	73.000	109.00	3.000
32	5:35: 0	1.917	78.000	109.00	5.000
33	5:40: 0	2.000	80.000	109.00	2.000
34	5:44:59	2.083	82.000	109.00	2.000
35	5:50: 0	2.167	83.000	109.00	1.000
36	5:55: 0	2.250	85.000	109.00	2.000
FINAL SHUT-IN PERIOD					
37	5:58: 0	2.300	342.000	109.00	257.000
38	6: 1: 0	2.350	599.000	109.00	257.000
39	6: 4: 0	2.400	753.000	109.00	154.000
40	6: 7: 0	2.450	851.000	109.00	98.000
41	6:10: 0	2.500	918.000	109.00	67.000
42	6:13: 0	2.550	971.000	109.00	53.000
43	6:16: 0	2.600	1007.000	109.00	36.000
44	6:19: 0	2.650	1037.000	109.00	30.000
45	6:22: 0	2.700	1062.000	109.00	25.000
46	6:25: 0	2.750	1081.000	109.00	19.000
47	6:28: 0	2.800	1095.000	109.00	14.000
48	6:31: 0	2.850	1109.000	109.00	14.000

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-30
GAUGE # : 10270
DATE : 29/10/88

FIELD : CLINE
JOB # : 14111
DEPTH : 3646
TEST : 60 FT OF GAS ABOVE FLUID

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	6:34: 0	2.900	1119.000	109.00	10.000
50	6:37: 0	2.950	1127.000	109.00	8.000
51	6:40: 0	3.000	1136.000	109.00	9.000
52	6:43: 0	3.050	1143.000	109.00	7.000

WESTERN TESTING CO. INC.