

FORMATION TEST REPORT



Home Office:

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COMPANY HESS OIL COMPANY

LEASE & WELL NO. UNRUH #1

SEC. 20 TWP. 20S RGE. 15W TEST NO. 1

DATE

6/22/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 6-22-88	TICKET	: 14552
CUSTOMER	: HESS OIL COMPANY	LEASE	: UNRUH
WELL	: #1 TEST: 1	GEOLOGIST	: J HESS
ELEVATION	: -	FORMATION	: KANSAS CITY
SECTION	: 20	TOWNSHIP	: 20S
RANGE	: 15W	STATE	: KANSAS
GAUGE SN#	: 4376	CLOCK	: 12
	COUNTY : BARTON		
	RANGE : 4000		

INTERVAL FROM : 3554 TO : 3569 TOTAL DEPTH : 3569

DEPTH OF SELECTIVE ZONE	:	
PACKER DEPTH	: 3549	SIZE : 6.63
PACKER DEPTH	: 3554	SIZE : 6.63
PACKER DEPTH	:	SIZE :
PACKER DEPTH	:	SIZE :

DRILLING CON.	: MALLARD		
MUD TYPE	: STARCH	VISCOSITY	: 60
WEIGHT	: 9.4	WATER LOSS (CC)	: 8.8
CHLORIDES (PPM)	: -		
JARS-MAKE	: -	SERIAL NUMBER	: -
DID WELL FLOW ?	: -	REVERSED OUT ?	: YES

DRILL COLLAR LENGTH	: 299 FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3231 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 24 FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 15 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
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 1984 FT OF: SALT WATER (GASSY)

CHLORIDES: 82000 PPM

Total Barrels Fluid = 25.10
Total Fluid Prod Rate = 803.35 BFPD
Indicated Wtr Rate = 803.35 BWPD

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

SET PACKER(S) : 1:00 AM

TIME STARTED OFF BOTTOM : 2:21

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 15 (A) 1869

INITIAL CLOSED IN PERIOD MIN: 21 (B) 475 PSI TO (C) : 659

FINAL FLOW PERIOD MIN: 30 (D) 1192

FINAL CLOSED IN PERIOD MIN: 18 (E) 682 PSI TO (F) : 991

FINAL HYDROSTATIC PRESSURE (G) 1187

(H) 1796

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HESS OIL COMPANY
RIG : BARTON-KANSAS
FIELD : UNRUH
WELL : #1
DATE : 6-22-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : HESS OIL COMPANY

WELL : #1

GAUGE # : 4376

DATE : 22/ 6/88

FIELD : UNRUH

JOB # : 14552

DEPTH : 3569

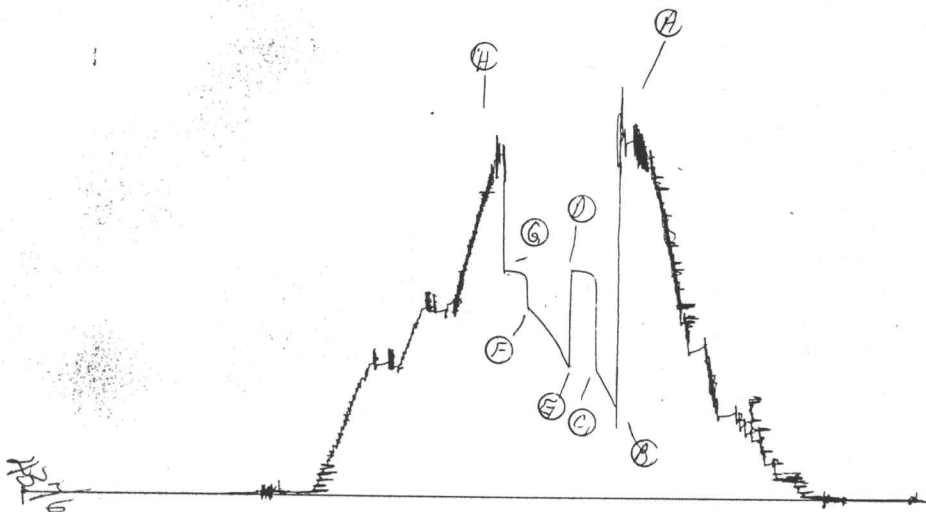
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1: 0: 0	0.000	475.000	116.00	0.000
2	1: 4: 59	0.083	535.000	116.00	60.000
3	1:10: 0	0.167	602.000	116.00	67.000
4	1:15: 0	0.250	659.000	116.00	57.000
5	1:18: 0	0.300	1157.000	116.00	498.000
6	1:21: 0	0.350	1175.000	116.00	18.000
7	1:24: 0	0.400	1183.000	116.00	8.000
8	1:27: 0	0.450	1187.000	116.00	4.000
9	1:30: 0	0.500	1190.000	116.00	3.000
10	1:33: 0	0.550	1191.000	116.00	1.000
11	1:36: 0	0.600	1192.000	116.00	1.000
12	1:37: 0	0.617	682.000	116.00	-510.000
13	1:40:59	0.683	750.000	116.00	68.000
14	1:46: 0	0.767	818.000	116.00	68.000
15	1:51: 0	0.850	867.000	116.00	49.000
16	1:55:59	0.933	912.000	116.00	45.000
17	2: 1: 0	1.017	954.000	116.00	42.000
18	2: 6: 0	1.100	991.000	116.00	37.000
19	2: 9: 0	1.150	1154.000	116.00	163.000
20	2:12: 0	1.200	1173.000	116.00	19.000
21	2:15: 0	1.250	1180.000	116.00	7.000
22	2:18: 0	1.300	1183.000	116.00	3.000
23	2:21: 0	1.350	1185.000	116.00	2.000
24	2:24: 0	1.400	1187.000	116.00	2.000

WESTERN TESTING CO. INC.

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