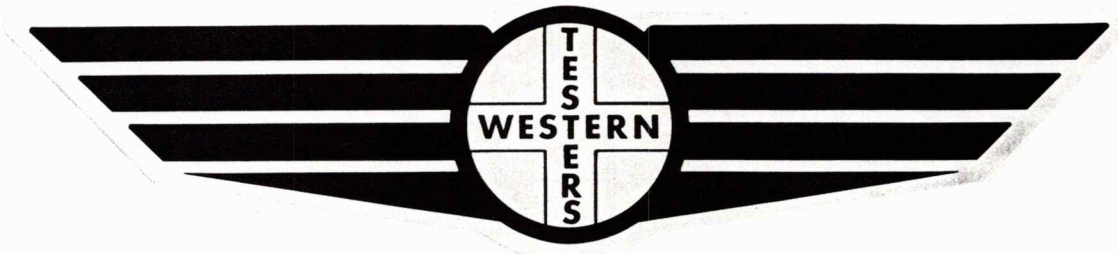
COMPANY MIDCONTINENT LAND & EXPLOR. LEASE & WELL NO. #1 HEFTY SEC. 23 TWP. 5S RGE. 12E TEST NO. 1 DATE 2/17/86

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

SUBSURFACE PRESSURE SURVEY

DATE	: 2-17-86			TICKET	: 9010
CUSTOMER	: MIDCONTINENT LAND & EXPLOR.			LEASE	: HEFTY
WELL	: 1	TEST: 1		GEOLOGIST	: OWENS
ELEVATION	: 1287			FORMATION	: VIOLA
SECTION	: 23			TOWNSHIP	: 5S
RANGE	: 12E	COUNTY :	NEMAHA	STATE	: KANSAS
GAUGE SN#	: 2608	RANGE :	4175	CLOCK	: 12

INTERVAL FROM	: 2380	TO	: 2453	TOTAL DEPTH	: 2453
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 2380	SIZE	: 6.75		
PACKER DEPTH	: 2375	SIZE	: 6.75		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: RAINS & WILLIAMSON DRLG		
MUD TYPE	: CHEMICAL	VISCOSITY	: 38
WEIGHT	: 9.4	WATER LOSS (CC)	: 12.0
CHLORIDES (PPM)	: 800		
JARS-MAKE	: WTC	SERIAL NUMBER	: 410
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 420	FT	I.D. inch	: 2.25	
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00	
DRILL PIPE LENGTH	: 1935	FT	I.D. inch	: 3.80	
TEST TOOL LENGTH	: 25	FT	TOOL SIZE	: 5.50	
ANCHOR LENGTH	: 73	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 PERIOD GOOD BLOW. FINAL FLOW
BLOW COMMENT #2 : PERIOD FAIR BLOW DECREASING AT THE END OF
BLOW COMMENT #3 : THE PERIOD.
BLOW COMMENT #4 :

RECOVERED	: 495	FT	OF: FREE OIL.	4.87 Barrels
RECOVERED	: 360	FT	OF: MUD CUT OIL (15% MUD).	3.54 Barrels
RECOVERED	: 60	FT	OF: MUD CUT OIL (30% MUD).	0.59 Barrels
RECOVERED	: 0	FT	OF:	0.00 Barrels
RECOVERED	: 0	FT	OF:	0.00 Barrels
RECOVERED	: 0	FT	OF:	0.00 Barrels
RECOVERED	: 0	FT	OF:	0.00 Barrels
RECOVERED	: 0	FT	OF:	0.00 Barrels
RECOVERED	: 0	FT	OF:	0.00 Barrels

Total Barrels = 9.0 Total Production = 108.1 Bpd

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

SET PACKER(S) : TIME STARTED OFF BOTTOM :
WELL TEMPERATURE : 107

INITIAL HYDROSTATIC PRESSURE			(A) 1187		
INITIAL FLOW PERIOD	MIN: 30	(B)	86	PSI TO (C) :	233
INITIAL CLOSED IN PERIOD	MIN: 30	(D)	793		
FINAL FLOW PERIOD	MIN: 90	(E)	269	PSI TO (F) :	408
FINAL CLOSED IN PERIOD	MIN: 108	(G)	795		
FINAL HYDROSTATIC PRESSURE		(H)	1167		

Pressure Transient Report

DATA FILE.....

COMPANY.....MIDCONTINENT LAND & EXPLOR.

DATE OF TEST.....2-17-86

FIELD NAME.....HEFTY

WELL NAME.....1

LOCATION.....NEMAHA-KANSAS

JOB NUMBER.....9010

GAUGE NUMBER.....2608

GAUGE DEPTH.....2453

COMMENTS

START UP TIME	(mo/da/yr)	(hr:min:sec)
	2./17/86.	0.: 0.: 0.

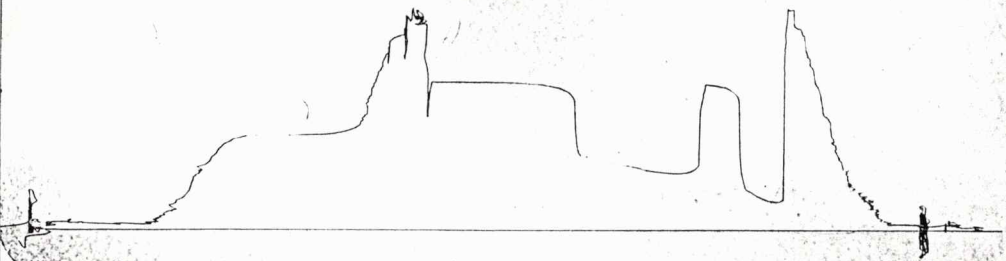
COMPANY : MIDCONTINENT LAND & EXPLOR. FIELD : HEFTY
WELL : 1 JOB # : 9010
GAUGE # : 2608 DEPTH : 2453
MON/DAY : 2/17

REC#	REAL TIME HR:MIN:SEC	ELAPSE TIME MINS	HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P (Po-Pi)	DP/DT Psi/hr
1	0: 0: 0	0	0.000	86.00	107.0	0.00	59.94
2	0: 5: 0	5	0.083	88.00	107.0	2.00	23.99
3	0:10: 0	10	0.167	109.00	107.0	23.00	252.25
4	0:15: 0	15	0.250	143.00	107.0	57.00	407.80
5	0:20: 0	20	0.333	179.00	107.0	93.00	431.79
6	0:25: 0	25	0.417	208.00	107.0	122.00	348.34
7	0:30: 0	30	0.500	233.00	107.0	147.00	299.85
8	0:33: 0	33	0.550	745.00	107.0	659.00	10230.01
9	0:36: 0	36	0.600	772.00	107.0	686.00	540.79
10	0:39: 0	39	0.650	780.00	107.0	694.00	159.84
11	0:42: 0	42	0.700	786.00	107.0	700.00	120.18
12	0:45: 0	45	0.750	788.00	107.0	702.00	39.96
13	0:48: 0	48	0.800	789.00	107.0	703.00	19.98
14	0:51: 0	51	0.850	790.00	107.0	704.00	20.03
15	0:54: 0	54	0.900	791.00	107.0	705.00	19.98
16	0:57: 0	57	0.950	792.00	107.0	706.00	20.03
17	1: 0: 0	60	1.000	793.00	107.0	707.00	19.98
18	1: 1: 0	61	1.017	269.00	107.0	183.00	-31332.90
19	1: 5: 0	65	1.083	269.00	107.0	183.00	0.00
20	1:10: 0	70	1.167	271.00	107.0	185.00	24.02
21	1:15: 0	75	1.250	277.00	107.0	191.00	71.96
22	1:20: 0	80	1.333	286.00	107.0	200.00	107.95
23	1:25: 0	85	1.417	294.00	107.0	208.00	96.09
24	1:30: 0	90	1.500	303.00	107.0	217.00	107.95
25	1:35: 0	95	1.583	311.00	107.0	225.00	95.95
26	1:40: 0	100	1.667	319.00	107.0	233.00	96.09
27	1:45: 0	105	1.750	328.00	107.0	242.00	107.95
28	1:50: 0	110	1.833	338.00	107.0	252.00	119.94
29	1:55: 0	115	1.917	347.00	107.0	261.00	108.11
30	2: 0: 0	120	2.000	355.00	107.0	269.00	95.95
31	2: 5: 0	125	2.083	363.00	107.0	277.00	95.95
32	2:10: 0	130	2.167	372.00	107.0	286.00	108.11
33	2:15: 0	135	2.250	382.00	107.0	296.00	119.94
34	2:20: 0	140	2.333	391.00	107.0	305.00	107.95
35	2:25: 0	145	2.417	399.00	107.0	313.00	96.09
36	2:30: 0	150	2.500	408.00	107.0	322.00	107.95
37	2:33: 0	153	2.550	749.00	107.0	663.00	6813.35
38	2:36: 0	156	2.600	769.00	107.0	683.00	400.59
39	2:39: 0	159	2.650	780.00	107.0	694.00	219.79
40	2:42: 0	162	2.700	785.00	107.0	699.00	100.15
41	2:45: 0	165	2.750	787.00	107.0	701.00	39.96
42	2:48: 0	168	2.800	788.00	107.0	702.00	19.98
43	2:51: 0	171	2.850	789.00	107.0	703.00	20.03
44	2:54: 0	174	2.900	790.00	107.0	704.00	19.98
45	2:57: 0	177	2.950	790.00	107.0	704.00	0.00
46	3: 0: 0	180	3.000	791.00	107.0	705.00	19.98
47	3: 3: 0	183	3.050	791.00	107.0	705.00	0.00
48	3: 6: 0	186	3.100	792.00	107.0	706.00	20.03
49	3: 9: 0	189	3.150	792.00	107.0	706.00	0.00

COMPANY : MIDCONTINENT LAND & EXPLOR. FIELD : HEFTY
WELL : 1 JOB # : 9010
GAUGE # : 2608 DEPTH : 2453
MON/DAY : 2/17

REC#	REAL TIME HR:MIN:SEC	ELAPSE TIME MINS	HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P (Po-Pi)	DP/DT Psi/hr
50	3:12: 0	192	3.200	793.00	107.0	707.00	20.03
51	3:15: 0	195	3.250	793.00	107.0	707.00	0.00
52	3:18: 0	198	3.300	793.00	107.0	707.00	0.00
53	3:21: 0	201	3.350	794.00	107.0	708.00	20.03
54	3:24: 0	204	3.400	794.00	107.0	708.00	0.00
55	3:27: 0	207	3.450	794.00	107.0	708.00	0.00
56	3:30: 0	210	3.500	794.00	107.0	708.00	0.00
57	3:33: 0	213	3.550	795.00	107.0	709.00	19.98
58	3:36: 0	216	3.600	795.00	107.0	709.00	0.00
59	3:39: 0	219	3.650	795.00	107.0	709.00	0.00
60	3:42: 0	222	3.700	795.00	107.0	709.00	0.00
61	3:45: 0	225	3.750	795.00	107.0	709.00	0.00
62	3:48: 0	228	3.800	795.00	107.0	709.00	0.00
63	3:51: 0	231	3.850	795.00	107.0	709.00	0.00
64	3:54: 0	234	3.900	795.00	107.0	709.00	0.00
65	3:57: 0	237	3.950	795.00	107.0	709.00	0.00
66	4: 0: 0	240	4.000	795.00	107.0	709.00	0.00
67	4: 3: 0	243	4.050	795.00	107.0	709.00	0.00
68	4: 6: 0	246	4.100	795.00	107.0	709.00	0.00
69	4: 9: 0	249	4.150	795.00	107.0	709.00	0.00
70	4:12: 0	252	4.200	795.00	107.0	709.00	0.00
71	4:15: 0	255	4.250	795.00	107.0	709.00	0.00
72	4:18: 0	258	4.300	795.00	107.0	709.00	0.00

JKF #9010



DST #1
2608

~~K~~ # 9010

I

