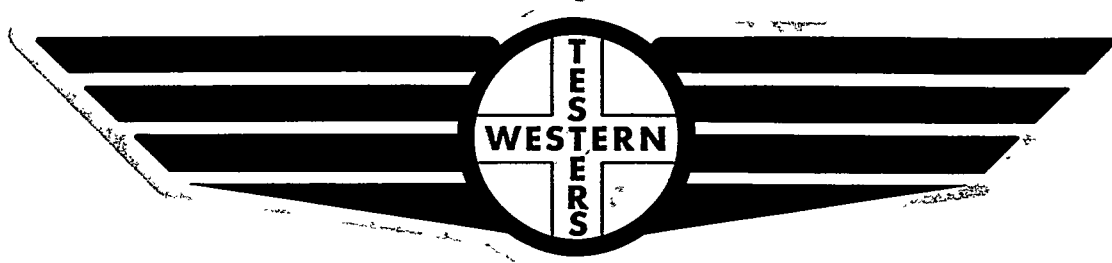


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MID-CONTINENT ENERGY CORPORATION LEASE & WELL NO. #1-8 WHITE SEC. 8 TWP. 16S RGE. 10W TEST NO. 1 DATE 7/22/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 7-22-86	TICKET	: 7033
CUSTOMER	: MID-CONTINENT ENERGY CORP.	LEASE	: WHITE
WELL	: #1-8 TEST: 1	GEOLOGIST	: J. ALBERTS
ELEVATION	: 1887	FORMATION	: KANSAS CITY
SECTION	: 8	TOWNSHIP	: 16S
RANGE	: 10W	COUNTY	: ELLSWORTH
GAUGE SN#	: 5666	STATE	: KANSAS
		RANGE	: 4000
		CLOCK	: 12

INTERVAL FROM	: 3047	TO	: 3085	TOTAL DEPTH	: 3085
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3042	SIZE	: 6.63		
PACKER DEPTH	: 3047	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MALLARD DRLG. CO.		
MUD TYPE	: STARCH	VISCOSITY	: 37
WEIGHT	: 9.3	WATER LOSS (CC)	: 7.8
CHLORIDES (PPM)	: NA		
JARS-MAKE	: WTC	SERIAL NUMBER	: 412
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 319 FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 2700 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 28 FT	TOOL SIZE	: 4.50
ANCHOR LENGTH	: 38 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 : 3 1/2 INCH BLOW THROUGHOUT THE
 BLOW COMMENT #2 : INITIAL FLOW.
 BLOW COMMENT #3 : 5 INCH BLOW DECREASING TO A 3 1/2
 BLOW COMMENT #4 : INCH BLOW ON THE FINAL FLOW.

RECOVERED	: 30	FT OF:	10%GAS;2%OIL;88%MUD
RECOVERED	: 60	FT OF:	18%GAS;2%OIL80%MUD

Total Barrels Fluid	=	0.44		
Total Fluid Prod Rate	=	7.08 BFPD		
Indicated Oil Rate	=	0.16 BOPD	Indicated Wtr Rate	= 4.72
Corrected Oil Rate	=	0.62 BOPD	Corrected Wtr Rate	= 18.67

REMARK 1 :
 REMARK 2 : RECOVERED 120 FEET OF GAS ABOVE FLUID.
 REMARK 3 :
 REMARK 4 :

SET PACKER(S)	: 2:30 PM	TIME STARTED OFF BOTTOM	: 5:30 PM
WELL TEMPERATURE	: 108		
INITIAL HYDROSTATIC PRESSURE		(A)	1551
INITIAL FLOW PERIOD MIN:	45	(B)	79 PSI TO (C) : 81
INITIAL CLOSED IN PERIOD MIN:	45	(D)	137
FINAL FLOW PERIOD MIN:	45	(E)	82 PSI TO (F) : 82
FINAL CLOSED IN PERIOD MIN:	45	(G)	117
FINAL HYDROSTATIC PRESSURE		(H)	1545

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY CORP.
RIG : ELLSWORTH-KANSAS
FIELD : WHITE
WELL : #1-8
DATE : 7-22-86
GAUGE NO : 5666

OPERATIONAL COMMENTS

RECOVERED 120 FEET OF GAS ABOVE FLUID.

COMPANY : MID-CONTINENT ENERGY CORP.

WELL : #1-8
GAUGE # : 5666
DATE : 22/ 7/86

FIELD : WHITE
JOB # : 7033
DEPTH : 3085
EVENT :

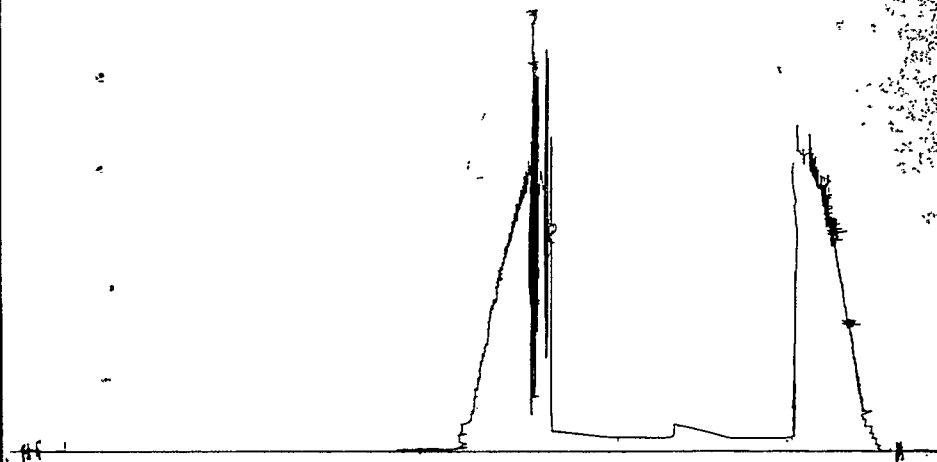
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:30: 0	0.000	79.000	108.00	0.000
2	2:34:60	0.083	79.000	108.00	0.000
3	2:40: 1	0.167	79.000	108.00	0.000
4	2:45: 0	0.250	79.000	108.00	0.000
5	2:49:60	0.333	79.000	108.00	0.000
6	2:55: 1	0.417	79.000	108.00	0.000
7	3: 0: 0	0.500	79.000	108.00	0.000
8	3: 4:60	0.583	80.000	108.00	1.000
9	3:10: 1	0.667	81.000	108.00	1.000
10	3:15: 0	0.750	81.000	108.00	0.000
11	3:18: 0	0.800	81.000	108.00	0.000
12	3:21: 0	0.850	83.000	108.00	2.000
13	3:24: 0	0.900	85.000	108.00	2.000
14	3:27: 0	0.950	87.000	108.00	2.000
15	3:30: 0	1.000	89.000	108.00	2.000
16	3:33: 0	1.050	92.000	108.00	3.000
17	3:36: 0	1.100	96.000	108.00	4.000
18	3:39: 0	1.150	100.000	108.00	4.000
19	3:42: 0	1.200	105.000	108.00	5.000
20	3:45: 0	1.250	110.000	108.00	5.000
21	3:48: 0	1.300	115.000	108.00	5.000
22	3:51: 0	1.350	120.000	108.00	5.000
23	3:54: 0	1.400	125.000	108.00	5.000
24	3:57: 0	1.450	131.000	108.00	6.000
25	4: 0: 0	1.500	137.000	108.00	6.000
26	4: 1: 1	1.517	82.000	108.00	-55.000
27	4: 4:60	1.583	82.000	108.00	0.000
28	4:10: 1	1.667	82.000	108.00	0.000
29	4:15: 0	1.750	82.000	108.00	0.000
30	4:19:60	1.833	82.000	108.00	0.000
31	4:25: 1	1.917	82.000	108.00	0.000
32	4:30: 0	2.000	82.000	108.00	0.000
33	4:34:60	2.083	82.000	108.00	0.000
34	4:40: 1	2.167	82.000	108.00	0.000
35	4:45: 0	2.250	82.000	108.00	0.000
36	4:48: 0	2.300	83.000	108.00	1.000
37	4:51: 0	2.350	85.000	108.00	2.000
38	4:54: 0	2.400	87.000	108.00	2.000
39	4:57: 0	2.450	89.000	108.00	2.000
40	5: 0: 0	2.500	91.000	108.00	2.000
41	5: 3: 0	2.550	93.000	108.00	2.000
42	5: 6: 0	2.600	95.000	108.00	2.000
43	5: 9: 0	2.650	97.000	108.00	2.000
44	5:12: 0	2.700	99.000	108.00	2.000
45	5:15: 0	2.750	102.000	108.00	3.000
46	5:18: 0	2.800	105.000	108.00	3.000
47	5:21: 0	2.850	108.000	108.00	3.000
48	5:24: 0	2.900	111.000	108.00	3.000
49	5:27: 0	2.950	114.000	108.00	3.000
50	5:30: 0	3.000	117.000	108.00	3.000

WESTERN TESTERS INC.

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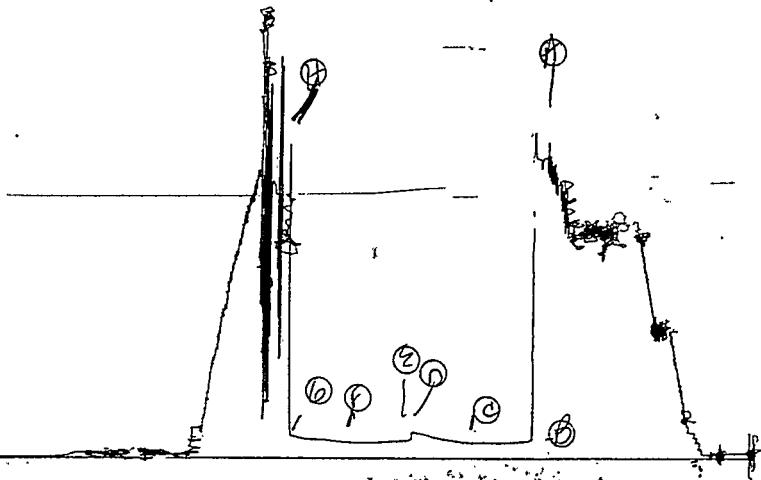
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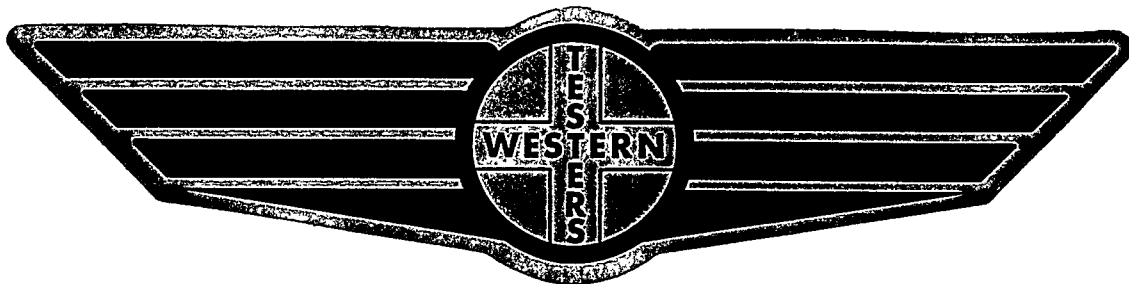
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MID-CONTINENT ENERGY CORP. LEASE & WELL NO. #1-8 WHITE SEC. 8 TWP. 16S RGE. 10W TEST NO. 2 DATE 7/23/86

Elev. 11887

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 7-23-86	TICKET	: 8676
CUSTOMER	: MID-CONTINENT ENERGY CORP.	LEASE	: WHITE
WELL	: #1-8 TEST: 2	GEOLOGIST	: J. ALBERTS
ELEVATION	: NA	FORMATION	: ARBUCKLE
SECTION	: 8	TOWNSHIP	: 16S
RANGE	: 10W	COUNTY	: ELLSWORTH
GAUGE SN#	: 4376	STATE	: KANSAS
		RANGE	: 4000
		CLOCK	: 12

INTERVAL FROM	: 3302	TO	: 3347	TOTAL DEPTH	: 3347
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3297	SIZE	: 6.63		
PACKER DEPTH	: 3302	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MALLARD DRLG.		
MUD TYPE	: STARCH	VISCOSITY	: 37
WEIGHT	: 9.5	WATER LOSS (CC)	: 13
CHLORIDES (PPM)	: NA		
JARS-MAKE	: WTC	SERIAL NUMBER	: 408
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 309 FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 2964 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 29 FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 45 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; FAIR BLOW BUILDING TO A STRONG
 BLOW COMMENT #2 : BLOW IN 1 MINUTE.
 BLOW COMMENT #3 : FINAL FLOW; WEAK BLOW BUILDING TO A STRONG BLOW
 BLOW COMMENT #4 : IN 3 MINUTES.

RECOVERED	: 1080	FT OF: CLEAN GASSY OIL	GRAVITY 40
RECOVERED	: 500	FT OF: SLIGHTLY MUDDY GASSY OIL	
RECOVERED	: 0	FT OF: 5%MUD;25%GAS;70%OIL	

Total Barrels Fluid	= 19.28		
Total Fluid Prod Rate	= 370.18 BFPD		
Indicated Oil Rate	= 335.04 BOPD	Indicated Wtr Rate	= 5.27
BWPD			
Corrected Oil Rate	= 306.92 BOPD	Corrected Wtr Rate	= 4.83
BWPD			

REMARK 1 :
 REMARK 2 : RECOVERED 330 FEET OF GAS ABOVE FLUID.
 REMARK 3 :
 REMARK 4 :

SET PACKER(S)	: 10:40 PM	TIME STARTED OFF BOTTOM	: 1:25 AM
WELL TEMPERATURE	: 107		
INITIAL HYDROSTATIC PRESSURE		(A)	1705
INITIAL FLOW PERIOD	MIN: 45	(B)	67 PSI TO (C) : 422
INITIAL CLOSED IN PERIOD	MIN: 45	(D)	655
FINAL FLOW PERIOD	MIN: 30	(E)	477 PSI TO (F) : 535
FINAL CLOSED IN PERIOD	MIN: 48	(G)	655
FINAL HYDROSTATIC PRESSURE		(H)	1705

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY CORP.
RIG : ELLSWORTH-KANSAS
FIELD : WHITE
WELL : #1-8
DATE : 7-23-86
GAUGE NO : 4376

OPERATIONAL COMMENTS

RECOVERED 330 FEET OF GAS ABOVE FLUID.
2.
3.
4.

COMPANY : MID-CONTINENT ENERGY CORP.

FIELD : WHITE

WELL : #1-8

JOB # : 8676

GAUGE # : 4376

DEPTH : 3347

DATE : 0/ 0/86

EVENT : RECOVERED 330 FEET OF GAS ABO

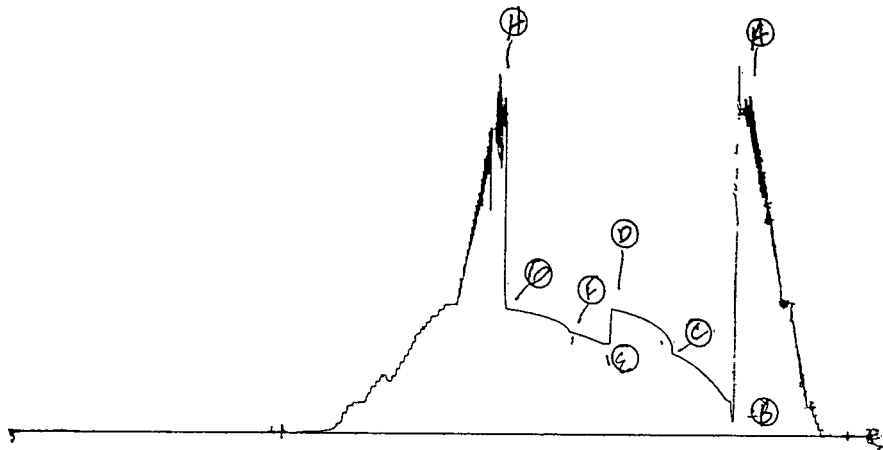
VE FLUID.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	0: 0: 0	0.000	67.000	107.00	0.000
2	0: 4: 60	0.083	180.000	107.00	113.000
3	0:10: 1	0.167	219.000	107.00	39.000
4	0:15: 0	0.250	262.000	107.00	43.000
5	0:19: 60	0.333	296.000	107.00	34.000
6	0:25: 1	0.417	331.000	107.00	35.000
7	0:30: 0	0.500	359.000	107.00	28.000
8	0:34: 60	0.583	382.000	107.00	23.000
9	0:40: 1	0.667	404.000	107.00	22.000
10	0:45: 0	0.750	422.000	107.00	18.000
11	0:48: 0	0.800	500.000	107.00	78.000
12	0:51: 0	0.850	530.000	107.00	30.000
13	0:54: 0	0.900	548.000	107.00	18.000
14	0:57: 0	0.950	564.000	107.00	16.000
15	1: 0: 0	1.000	578.000	107.00	14.000
16	1: 2: 60	1.050	590.000	107.00	12.000
17	1: 6: 0	1.100	602.000	107.00	12.000
18	1: 9: 0	1.150	611.000	107.00	9.000
19	1:12: 0	1.200	619.000	107.00	8.000
20	1:15: 0	1.250	627.000	107.00	8.000
21	1:18: 0	1.300	634.000	107.00	7.000
22	1:21: 0	1.350	641.000	107.00	7.000
23	1:24: 0	1.400	646.000	107.00	5.000
24	1:27: 0	1.450	651.000	107.00	5.000
25	1:30: 0	1.500	655.000	107.00	4.000
26	1:31: 1	1.517	477.000	107.00	-178.000
27	1:34: 60	1.583	477.000	107.00	0.000
28	1:40: 1	1.667	489.000	107.00	12.000
29	1:45: 0	1.750	503.000	107.00	14.000
30	1:49: 60	1.833	514.000	107.00	11.000
31	1:55: 1	1.917	526.000	107.00	12.000
32	2: 0: 0	2.000	535.000	107.00	9.000
33	2: 3: 0	2.050	560.000	107.00	25.000
34	2: 5: 60	2.100	576.000	107.00	16.000
35	2: 9: 0	2.150	588.000	107.00	12.000
36	2:12: 0	2.200	598.000	107.00	10.000
37	2:15: 0	2.250	604.000	107.00	6.000
38	2:18: 0	2.300	612.000	107.00	8.000
39	2:21: 0	2.350	618.000	107.00	6.000
40	2:24: 0	2.400	624.000	107.00	6.000
41	2:27: 0	2.450	629.000	107.00	5.000
42	2:30: 0	2.500	635.000	107.00	6.000
43	2:33: 0	2.550	639.000	107.00	4.000
44	2:36: 0	2.600	643.000	107.00	4.000
45	2:39: 0	2.650	648.000	107.00	5.000
46	2:42: 0	2.700	651.000	107.00	3.000
47	2:45: 0	2.750	653.000	107.00	2.000
48	2:48: 0	2.800	655.000	107.00	2.000

WESTERN TESTERS INC.

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