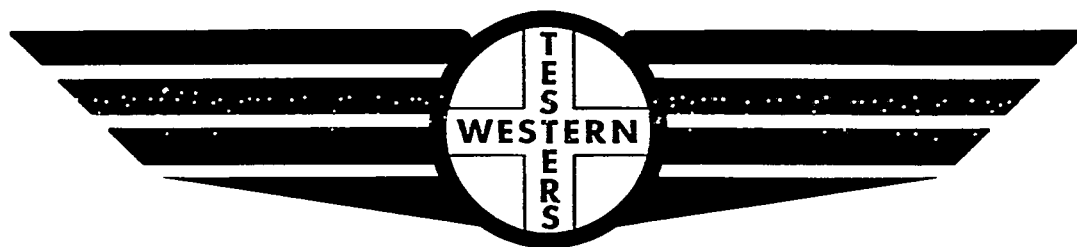


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

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

WESTERN TESTING CO INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 10-8-86	TICKET	: 8685
CUSTOMER	: MID-CONTINENT ENERGY CORP.	LEASE	: WHITE
WELL	: #2-8 TEST: 1	GEOLOGIST	: J. ALBERTS
ELEVATION	: 1880	FORMATION	: ARBUCKLE
SECTION	: 8	TOWNSHIP	: 16S
RANGE	: 10W	COUNTY	: ELLSWORTH
GAUGE SN#	: 4376	STATE	: KANSAS
		RANGE	: 4000
		CLOCK	: 12

INTERVAL FROM	: 3298	TO	: 3342	TOTAL DEPTH	: 3342
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3293	SIZE	: 6.63		
PACKER DEPTH	: 3298	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MALLARD JV INC.		
MUD TYPE	: STARCH	VISCOSITY	: 45
WEIGHT	: 9.6	WATER LOSS (CC)	: 10.0
CHLORIDES (PPM)	: NA		
JARS-MAKE	: --	SERIAL NUMBER	:
DID WELL FLOW ?	: --	REVERSED OUT ?	: --

DRILL COLLAR LENGTH	: 374	FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 2901	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 23	FT	TOOL SIZE	: 4.50
ANCHOR LENGTH	: 44	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; HOSE 2" INTO BUCKET SLOWLY
BLOW COMMENT #2 : DECREASING TO A SURFACE BLOW IN 37 MINUTES.
BLOW COMMENT #3 : FINAL FLOW-NO BLOW-REMAINS DEAD THROUGHOUT.
BLOW COMMENT #4 :

RECOVERED : 90 FT OF: OIL CUT MUD
RECOVERED : 0 FT OF: 5% GAS-40% OIL-55% MUD

Total Barrels Fluid = 0.44
Total Fluid Prod Rate = 9.80 BFPD
Indicated Oil Rate = 3.92 BOPD
Indicated Wtr Rate = 4.85 BWPD
Corrected Oil Rate = 2.87 BOPD
Corrected Wtr Rate = 3.55 BWPD

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

SET PACKER(S) : 2:15 PM

TIME STARTED OFF BOTTOM : 4:50 PM

WELL TEMPERATURE : 104

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 45

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 20

FINAL CLOSED IN PERIOD MIN: 45

FINAL HYDROSTATIC PRESSURE

(A) 1701

(B) 63 PSI TO (C) : 63

(D) 361

(E) 73 PSI TO (F) : 73

(G) 262

(H) 1699

WESTERN TESTING CO INC.
WICHITA KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY CORP.
RIG : ELLSWORTH-KANSAS
FIELD : WHITE
WELL : #2-8
DATE : 10-8-86
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : MID-CONTINENT ENERGY CORP.

WELL : #2-8
GAUGE # : 4376
DATE : 8/10/86

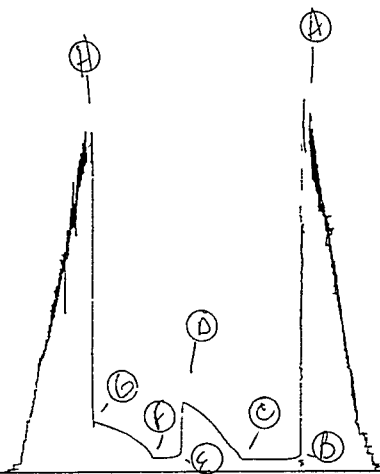
FIELD : WHITE
JOB # : 8685
DEPTH : 3342
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
1	2:15: 0	0.000	63.000	40.00	0.000
2	2:20: 0	0.083	63.000	40.00	0.000
3	2:25: 0	0.167	63.000	40.00	0.000
4	2:30: 0	0.250	63.000	40.00	0.000
5	2:35: 0	0.333	63.000	40.00	0.000
6	2:40: 0	0.417	63.000	40.00	0.000
7	2:45: 0	0.500	63.000	40.00	0.000
8	2:50: 0	0.583	63.000	40.00	0.000
9	2:55: 0	0.667	63.000	40.00	0.000
10	3: 0: 0	0.750	63.000	40.00	0.000
11	3: 3: 0	0.800	89.000	40.00	26.000
12	3: 6: 0	0.850	113.000	40.00	24.000
13	3: 9: 0	0.900	132.000	40.00	19.000
14	3:12: 0	0.950	156.000	40.00	24.000
15	3:15: 0	1.000	186.000	40.00	30.000
16	3:18: 0	1.050	212.000	40.00	26.000
17	3:21: 0	1.100	239.000	40.00	27.000
18	3:24: 0	1.150	262.000	40.00	23.000
19	3:27: 0	1.200	282.000	40.00	20.000
20	3:30: 0	1.250	300.000	40.00	18.000
21	3:33: 0	1.300	317.000	40.00	17.000
22	3:36: 0	1.350	331.000	40.00	14.000
23	3:39: 0	1.400	344.000	40.00	13.000
24	3:42: 0	1.450	355.000	40.00	11.000
25	3:45: 0	1.500	361.000	40.00	6.000
26	3:46: 0	1.517	73.000	40.00	-288.000
27	3:50: 0	1.583	73.000	40.00	0.000
28	3:55: 0	1.667	73.000	40.00	0.000
29	4: 0: 0	1.750	73.000	40.00	0.000
30	4: 5: 0	1.833	73.000	40.00	0.000
31	4: 8: 0	1.883	99.000	40.00	26.000
32	4:11: 0	1.933	123.000	40.00	24.000
33	4:14: 0	1.983	144.000	40.00	21.000
34	4:17: 0	2.033	156.000	40.00	12.000
35	4:20: 0	2.083	172.000	40.00	16.000
36	4:23: 0	2.133	189.000	40.00	17.000
37	4:26: 0	2.183	199.000	40.00	10.000
38	4:29: 0	2.233	209.000	40.00	10.000
39	4:32: 0	2.283	217.000	40.00	8.000
40	4:35: 0	2.333	225.000	40.00	8.000
41	4:38: 0	2.383	233.000	40.00	8.000
42	4:41: 0	2.433	241.000	40.00	8.000
43	4:44: 0	2.483	250.000	40.00	9.000
44	4:47: 0	2.533	256.000	40.00	6.000
45	4:50: 0	2.583	262.000	40.00	6.000

WESTERN TESTING CO INC.

Alt # 8685

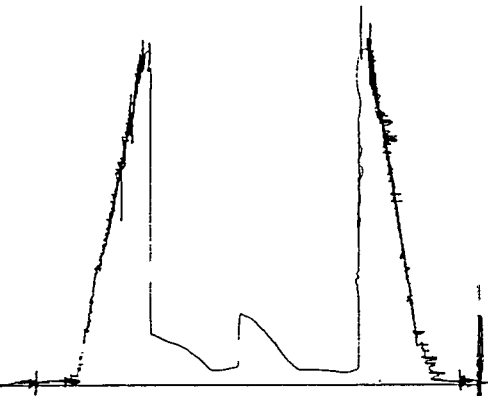
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4376

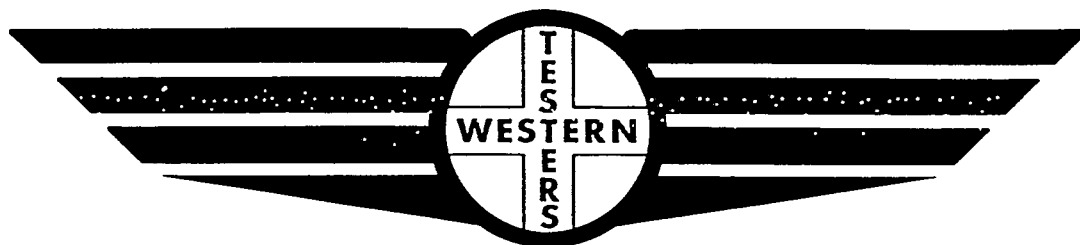
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5/96

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MID-CONTINENT ENERGY CORP. LEASE & WELL NO. #2-8 WHITE SEC. 8 TWP. 16S RGE. 10W TEST NO. 2 DATE 10/9/86

WESTERN TESTING CO INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 10-9	TICKET	: 8686
CUSTOMER	: MID-CONTINENT ENERGY CORP.	LEASE	: WHITE
WELL	: #2-8 TEST: 2	GEOLOGIST	: J. ALBERTS
ELEVATION	: 1880	FORMATION	: ARBUCKLE
SECTION	: 8	TOWNSHIP	: 16S
RANGE	: 10W	COUNTY	: ELLSWORTH
GAUGE SN#	: 4376	STATE	: KANSAS
		CLOCK	: 12
		RANGE	: 4000

INTERVAL FROM	: 3297	TO	: 3345	TOTAL DEPTH	: 3345
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3292	SIZE	: 6.63		
PACKER DEPTH	: 3297	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MALLARD JV INC.		
MUD TYPE	: STARCH	VISCOSITY	: 45
WEIGHT	: 9.6	WATER LOSS (CC)	: 10
CHLORIDES (PPM)	: NA		
JARS-MAKE	: --	SERIAL NUMBER	:
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 374 FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 2900 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 23 FT	TOOL SIZE	: 4.50
ANCHOR LENGTH	: 48 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-HOSE 3 1/2" INTO BUCKET
BLOW COMMENT #2 : SLOWLY DECREASING TO A 1" BLOW IN 40 MINUTES.
BLOW COMMENT #3 : FINAL FLOW; WEAK SURFACE FLOW-DIED IN 17 MINUTES
BLOW COMMENT #4 : REMAINS THROUGHOUT.

RECOVERED : 130 FT OF: ~~S~~IGHTLY GAS & OIL CUT MUD
RECOVERED : 0 FT OF: 15% GAS-5% OIL-80% MUD

Total Barrels Fluid = 0.64
Total Fluid Prod Rate = 12.27 BFPD
Indicated Oil Rate = 0.61 BOPD
Indicated Wtr Rate = 8.83 BWPD
Corrected Oil Rate = 2.49 BOPD
Corrected Wtr Rate = 35.80 BWPD

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

SET PACKER(S) : 2:30 AM

TIME STARTED OFF BOTTOM : 5:15 AM

WELL TEMPERATURE : 104

INITIAL HYDROSTATIC PRESSURE

(A) 1743

INITIAL FLOW PERIOD MIN: 45

(B) 82 PSI TO (C) : 83

INITIAL CLOSED IN PERIOD MIN: 48

(D) 352

FINAL FLOW PERIOD MIN: 30

(E) 92 PSI TO (F) : 92

FINAL CLOSED IN PERIOD MIN: 48

(G) 453

FINAL HYDROSTATIC PRESSURE

(H) 1699

WESTERN TESTING CO INC.
WICHITA KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY CORP.
RIG : ELLSWORTH-KANSAS
FIELD : WHITE
WELL : #2-8
DATE : 10-9
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : MID-CONTINENT ENERGY CORP.

FIELD : WHITE

WELL : #2-8

JOB # : 8686

GAUGE # : 4376

DEPTH : 3345

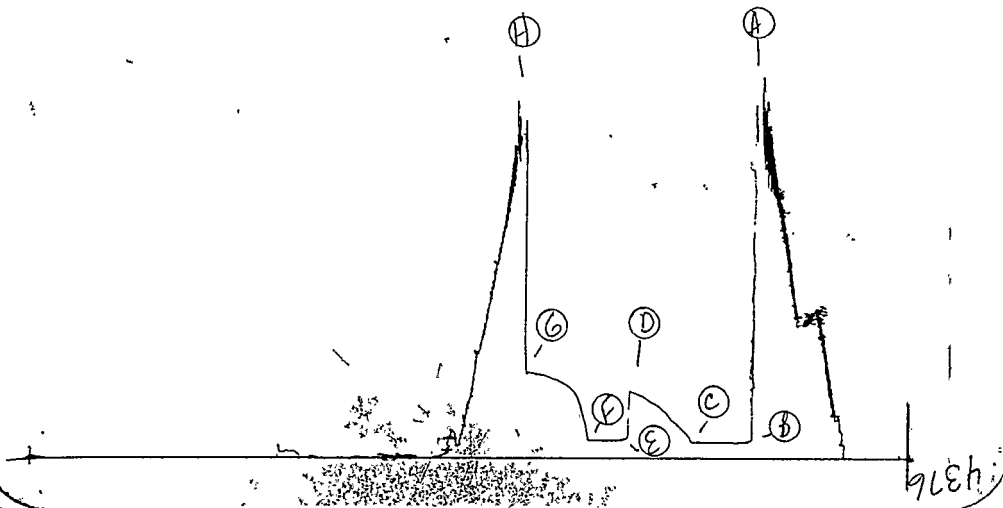
DATE : 9/10/86

TEST :

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	82.000	40.00	0.000
2	2:35: 0	0.083	82.000	40.00	0.000
3	2:40: 0	0.167	82.000	40.00	0.000
4	2:45: 0	0.250	82.000	40.00	0.000
5	2:50: 0	0.333	83.000	40.00	1.000
6	2:55: 0	0.417	83.000	40.00	0.000
7	3: 0: 0	0.500	83.000	40.00	0.000
8	3: 5: 0	0.583	83.000	40.00	0.000
9	3:10: 0	0.667	83.000	40.00	0.000
10	3:15: 0	0.750	83.000	40.00	0.000
11	3:18: 0	0.800	115.000	40.00	32.000
12	3:21: 0	0.850	140.000	40.00	25.000
13	3:24: 0	0.900	161.000	40.00	21.000
14	3:27: 0	0.950	181.000	40.00	20.000
15	3:30: 0	1.000	199.000	40.00	18.000
16	3:33: 0	1.050	225.000	40.00	26.000
17	3:36: 0	1.100	247.000	40.00	22.000
18	3:39: 0	1.150	267.000	40.00	20.000
19	3:42: 0	1.200	282.000	40.00	15.000
20	3:45: 0	1.250	294.000	40.00	12.000
21	3:48: 0	1.300	304.000	40.00	10.000
22	3:51: 0	1.350	321.000	40.00	17.000
23	3:54: 0	1.400	331.000	40.00	10.000
24	3:57: 0	1.450	340.000	40.00	9.000
25	4: 0: 0	1.500	347.000	40.00	7.000
26	4: 3: 0	1.550	352.000	40.00	5.000
27	4: 4: 0	1.567	92.000	40.00	-260.000
28	4: 8: 0	1.633	92.000	40.00	0.000
29	4:13: 0	1.717	92.000	40.00	0.000
30	4:18: 0	1.800	92.000	40.00	0.000
31	4:23: 0	1.883	92.000	40.00	0.000
32	4:28: 0	1.967	92.000	40.00	0.000
33	4:33: 0	2.050	92.000	40.00	0.000
34	4:36: 0	2.100	191.000	40.00	99.000
35	4:39: 0	2.150	264.000	40.00	73.000
36	4:42: 0	2.200	321.000	40.00	57.000
37	4:45: 0	2.250	349.000	40.00	28.000
38	4:48: 0	2.300	371.000	40.00	22.000
39	4:51: 0	2.350	386.000	40.00	15.000
40	4:54: 0	2.400	398.000	40.00	12.000
41	4:57: 0	2.450	408.000	40.00	10.000
42	5: 0: 0	2.500	414.000	40.00	6.000
43	5: 3: 0	2.550	424.000	40.00	10.000
44	5: 6: 0	2.600	433.000	40.00	9.000
45	5: 9: 0	2.650	440.000	40.00	7.000
46	5:12: 0	2.700	443.000	40.00	3.000
47	5:15: 0	2.750	447.000	40.00	4.000
48	5:18: 0	2.800	450.000	40.00	3.000
49	5:21: 0	2.850	453.000	40.00	3.000

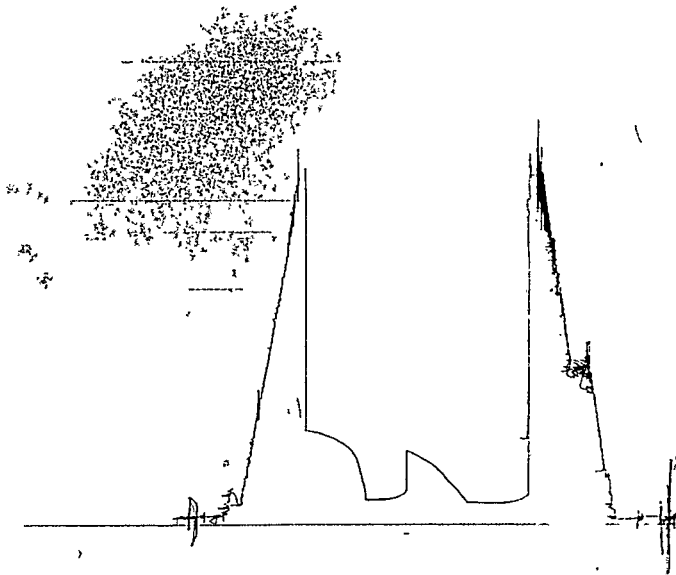
WESTERN TESTING CO INC.

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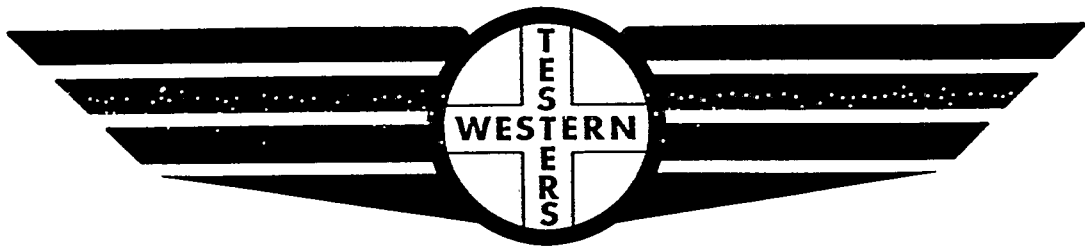


Plt # 8686

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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. #2-8 WHITE SEC. 8 TWP. 16S RGE. 10W TEST NO. 3 DATE 10/9/86

WESTERN TESTING CO INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 10-9-86	TICKET	: 8687
CUSTOMER	: MID-CONTINENT ENERGY CORP.	LEASE	: WHITE
WELL	: #2-8 TEST: 3	GEOLOGIST	: J. ALBERTS
ELEVATION	: 1880	FORMATION	: ARBUCKLE
SECTION	: 8	TOWNSHIP	: 16S
RANGE	: 10W	COUNTY	: ELLSWORTH
GAUGE SN#	: 4376	STATE	: KANSAS
		RANGE	: 4000
		CLOCK	: 12

INTERVAL FROM	: 3299	TO	: 3353	TOTAL DEPTH	: 3353
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3292	SIZE	: 6.63		
PACKER DEPTH	: 3299	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MALLARD JV INC.		
MUD TYPE	: STARCH	VISCOSITY	: 43
WEIGHT	: 9.4	WATER LOSS (CC)	: 43
CHLORIDES (PPM)	: NA		
JARS-MAKE	: --	SERIAL NUMBER	:
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 312 FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 2962 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 23 FT	TOOL SIZE	: 4.50
ANCHOR LENGTH	: 56 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 INCRESAING TO STRONG BLOW
BLOW COMMENT #2 : OFF BOTTOM OF BUCKET IN 15 MINUTES.
BLOW COMMENT #3 : FINAL FLOW-WEAK BLOW INCREASING TO A GOOD BLOW -
BLOW COMMENT #4 : HOSE 8 INCHES INTO BUCKET IN 25 MINUTES.

RECOVERED	:	42	FT	OF: HEAVY OIL & GAS CUT MUD
RECOVERED	:	0	FT	OF: 15% GAS- 55% OIL- 30%MUD
RECOVERED	:	124	FT	OF: OIL & GAS CUT MUD
RECOVERED	:	0	FT	OF: 20% GAS-20% OIL-60% MUD
RECOVERED	:	124	FT	OF: HEAVY OIL & GAS CUT WATERY MUD
RECOVERED	:	0	FT	OF: 25% GAS-25% OIL-25% MUD-25%WTR.
RECOVERED	:	62	FT	OF: OIL & GAS CUT MUDDY WATER
RECOVERED	:	0	FT	OF: 15% GAS-8% OIL-5% MUD-72%WTR.

Total Barrels Fluid	=	2.10
Total Fluid Prod Rate	=	50.29 BFPD
Indicated Oil Rate	=	12.00 BOPD
Indicated Wtr Rate	=	26.43 BWPD
Corrected Oil Rate	=	36.15 BOPD
Corrected Wtr Rate	=	79.62 BWPD

REMARK 1 :
 REMARK 2 : CHLORIDES: 34000 PPM
 REMARK 3 : HIT BRIDGE @ 2547'
 REMARK 4 :

SET PACKER(S) :	3:20 PM	TIME STARTED OFF BOTTOM :	5:50 PM
WELL TEMPERATURE :	104		
INITIAL HYDROSTATIC PRESSURE		(A)	1715
INITIAL FLOW PERIOD MIN:	30	(B)	95 PSI TO (C) : 148
INITIAL CLOSED IN PERIOD MIN:	45	(D)	784
FINAL FLOW PERIOD MIN:	30	(E)	175 PSI TO (F) : 191
FINAL CLOSED IN PERIOD MIN:	45	(G)	782
FINAL HYDROSTATIC PRESSURE		(H)	1699

WESTERN TESTING CO INC.
WICHITA KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY CORP.
RIG : ELLSWORTH-KANSAS
FIELD : WHITE
WELL : #2-8
DATE : 10-9-86
GAUGE NO : 4376

OPERATIONAL COMMENTS

CHLORIDES: 34000 PPM
HIT BRIDGE @ 2547'

COMPANY : MID-CONTINENT ENERGY CORP.

WELL : #2-8
GAUGE # : 4376
DATE : 9/10/86

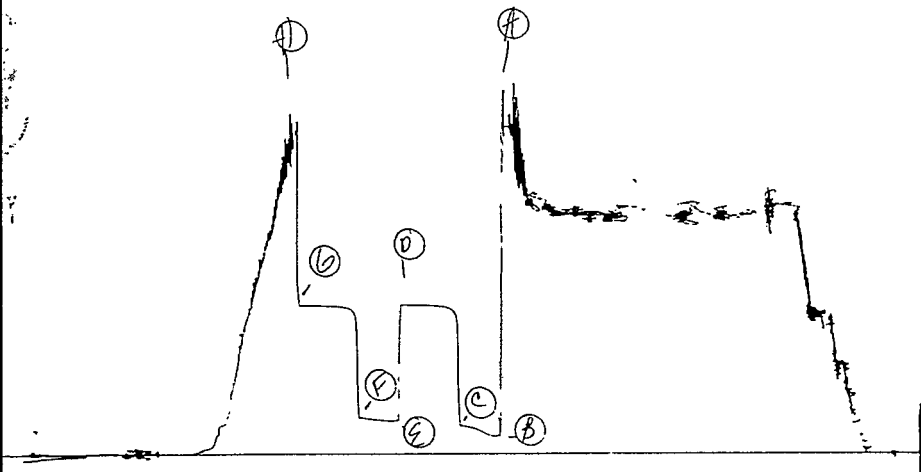
FIELD : WHITE
JOB # : 8687
DEPTH : 3353
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:20: 0	0.000	95.000	40.00	0.000
2	3:25: 0	0.083	95.000	40.00	0.000
3	3:30: 0	0.167	100.000	40.00	5.000
4	3:35: 0	0.250	117.000	40.00	17.000
5	3:40: 0	0.333	134.000	40.00	17.000
6	3:45: 0	0.417	143.000	40.00	9.000
7	3:50: 0	0.500	148.000	40.00	5.000
8	3:53: 0	0.550	665.000	40.00	517.000
9	3:56: 0	0.600	743.000	40.00	78.000
10	3:59: 0	0.650	761.000	40.00	18.000
11	4: 2: 0	0.700	770.000	40.00	9.000
12	4: 5: 0	0.750	774.000	40.00	4.000
13	4: 8: 0	0.800	777.000	40.00	3.000
14	4:11: 0	0.850	779.000	40.00	2.000
15	4:14: 0	0.900	780.000	40.00	1.000
16	4:17: 0	0.950	781.000	40.00	1.000
17	4:20: 0	1.000	782.000	40.00	1.000
18	4:23: 0	1.050	783.000	40.00	1.000
19	4:26: 0	1.100	784.000	40.00	1.000
20	4:29: 0	1.150	784.000	40.00	0.000
21	4:32: 0	1.200	784.000	40.00	0.000
22	4:35: 0	1.250	784.000	40.00	0.000
23	4:36: 0	1.267	175.000	40.00	-609.000
24	4:40: 0	1.333	175.000	40.00	0.000
25	4:45: 0	1.417	176.000	40.00	1.000
26	4:50: 0	1.500	180.000	40.00	4.000
27	4:55: 0	1.583	183.000	40.00	3.000
28	5: 0: 0	1.667	189.000	40.00	6.000
29	5: 5: 0	1.750	191.000	40.00	2.000
30	5: 8: 0	1.800	729.000	40.00	538.000
31	5:11: 0	1.850	758.000	40.00	29.000
32	5:14: 0	1.900	768.000	40.00	10.000
33	5:17: 0	1.950	772.000	40.00	4.000
34	5:20: 0	2.000	776.000	40.00	4.000
35	5:23: 0	2.050	777.000	40.00	1.000
36	5:26: 0	2.100	778.000	40.00	1.000
37	5:29: 0	2.150	779.000	40.00	1.000
38	5:32: 0	2.200	780.000	40.00	1.000
39	5:35: 0	2.250	781.000	40.00	1.000
40	5:38: 0	2.300	782.000	40.00	1.000
41	5:41: 0	2.350	782.000	40.00	0.000
42	5:44: 0	2.400	782.000	40.00	0.000
43	5:47: 0	2.450	782.000	40.00	0.000
44	5:50: 0	2.500	782.000	40.00	0.000

WESTERN TESTING CO INC.

4376

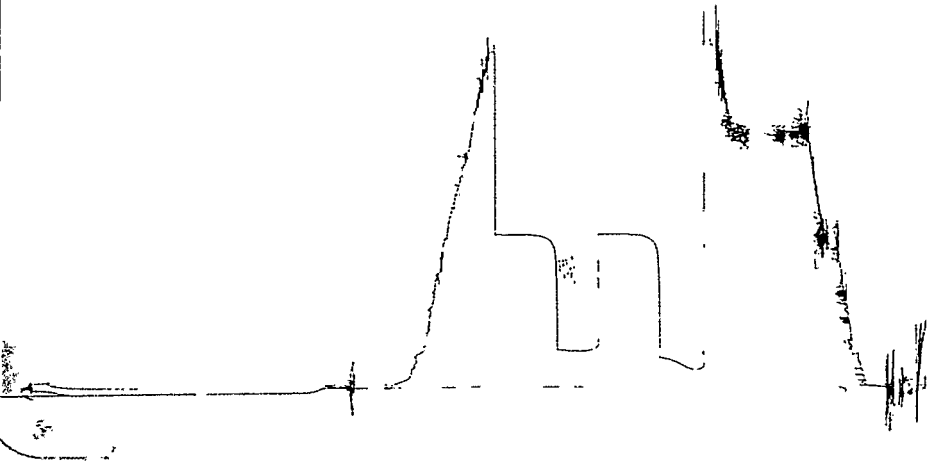
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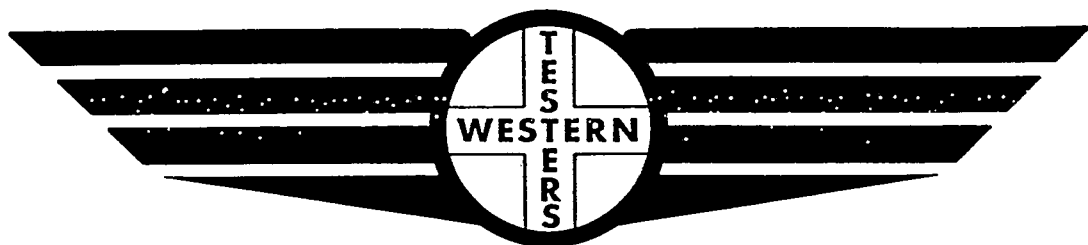
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box-1599

Phone (316) 262-5861

COMPANY MID-CONTINENT ENERGY CORP. LEASE & WELL NO. #2-8 WHITE SEC. 8 TWP. 16S RGE. 10W TEST NO. 4 DATE 10/10/86

WESTERN TESTING CO INC.
SUBSURFACE PRESSURE SURVEY

DATE : 10-10-86
CUSTOMER : MID-CONTINENT ENERGY CORP.
WELL : #2-8 TEST: 4
ELEVATION : 1880
SECTION : 8
RANGE : 10W COUNTY : ELLSWORTH
GAUGE SN# : 4376 RANGE : 4000
TICKET : 8688
LEASE : WHITE
GEOLOGIST : J. BUEHLER
FORMATION : ARBUCKLE
TOWNSHIP : 16S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3370 TO : 3384 TOTAL DEPTH : 3500
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3365 SIZE : 6.63
PACKER DEPTH : 3370 SIZE : 6.63
PACKER DEPTH : 3384 SIZE : 6.63
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD JV INC.
MUD TYPE : STARCH VISCOSITY : 52
WEIGHT : 9.5 WATER LOSS (CC) : 7.0
CHLORIDES (PPM) : NA
JARS-MAKE : -- SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 374 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2973 FT I.D. inch : 3.80
TEST TOOL LENGTH : 23 FT TOOL SIZE : 4.50
ANCHOR LENGTH : 14 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 OFF BOTTOM OF BUCKET IN 2
BLOW COMMENT #2 : MINUTES; BLOW REMAINS THROUGHOUT.
BLOW COMMENT #3 : FINAL FLOW; STRONG BLOW OFF BOTTOM OF BUCKET IN 3
BLOW COMMENT #4 : MINUTES; BLOW REMAINS THROUGHOUT.

RECOVERED : 124 FT OF: MUDDY WATER WITH SHOW OF OIL.
RECOVERED : 558 FT OF: SLIGHTLY OIL CUT WATER-5%OIL;95%WTR
RECOVERED : 806 FT OF: VERY SLIGHTLY OIL CUT WATER
RECOVERED : 0 FT OF: 2% OIL; 98% WTR

Total Barrels Fluid = 17.46
Total Fluid Prod Rate = 419.15 BFPD
Indicated Oil Rate = 12.68 BOPD
Indicated Wtr Rate = 405.91 BWPD
Corrected Oil Rate = 411.34 BOPD
Corrected Wtr Rate = %13172.05 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 13000 PPM
REMARK 3 : RW= .8 @ DEPTH 3370'
REMARK 4 :

SET PACKER(S) : 6:05 PM TIME STARTED OFF BOTTOM : 8:05 PM
WELL TEMPERATURE : 108
INITIAL HYDROSTATIC PRESSURE (A) 1776
INITIAL FLOW PERIOD MIN: 30 (B) 109 PSI TO (C) : 475
INITIAL CLOSED IN PERIOD MIN: 30 (D) 820
FINAL FLOW PERIOD MIN: 30 (E) 516 PSI TO (F) : 663
FINAL CLOSED IN PERIOD MIN: 30 (G) 821
FINAL HYDROSTATIC PRESSURE (H) 1731

WESTERN TESTING CO INC.
WICHITA KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY CORP.
RIG : ELLSWORTH-KANSAS
FIELD : WHITE
WELL : #2-8
DATE : 10-10-86
GAUGE NO : 4376

OPERATIONAL COMMENTS

CHLORIDES: 13000 PPM
RW= .8 @ DEPTH 3370'

COMPANY : MID-CONTINENT ENERGY CORP.

WELL : #2-8
GAUGE # : 4376
DATE : 10/10/86

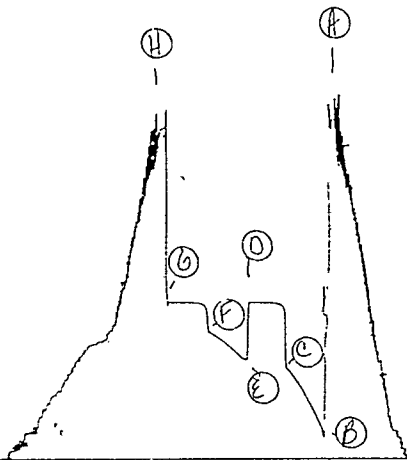
FIELD : WHITE
JOB # : 8688
DEPTH : 3500
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	6: 5: 0	0.000	109.000	42.22	0.000
2	6:10: 0	0.083	203.000	42.22	94.000
3	6:15: 0	0.167	276.000	42.22	73.000
4	6:20: 0	0.250	337.000	42.22	61.000
5	6:25: 0	0.333	394.000	42.22	57.000
6	6:30: 0	0.417	441.000	42.22	47.000
7	6:35: 0	0.500	475.000	42.22	34.000
8	6:38: 0	0.550	806.000	42.22	331.000
9	6:41: 0	0.600	813.000	42.22	7.000
10	6:44: 0	0.650	817.000	42.22	4.000
11	6:47: 0	0.700	819.000	42.22	2.000
12	6:50: 0	0.750	820.000	42.22	1.000
13	6:53: 0	0.800	820.000	42.22	0.000
14	6:56: 0	0.850	820.000	42.22	0.000
15	6:59: 0	0.900	820.000	42.22	0.000
16	7: 2: 0	0.950	820.000	42.22	0.000
17	7: 5: 0	1.000	820.000	42.22	0.000
18	7: 6: 0	1.017	516.000	42.22	-304.000
19	7:10: 0	1.083	532.000	42.22	16.000
20	7:15: 0	1.167	566.000	42.22	34.000
21	7:20: 0	1.250	594.000	42.22	28.000
22	7:25: 0	1.333	625.000	42.22	31.000
23	7:30: 0	1.417	648.000	42.22	23.000
24	7:35: 0	1.500	663.000	42.22	15.000
25	7:38: 0	1.550	800.000	42.22	137.000
26	7:41: 0	1.600	812.000	42.22	12.000
27	7:44: 0	1.650	817.000	42.22	5.000
28	7:47: 0	1.700	819.000	42.22	2.000
29	7:50: 0	1.750	820.000	42.22	1.000
30	7:53: 0	1.800	821.000	42.22	1.000
31	7:56: 0	1.850	821.000	42.22	0.000
32	7:59: 0	1.900	821.000	42.22	0.000
33	8: 2: 0	1.950	821.000	42.22	0.000
34	8: 5: 0	2.000	821.000	42.22	0.000

WESTERN TESTING CO INC.

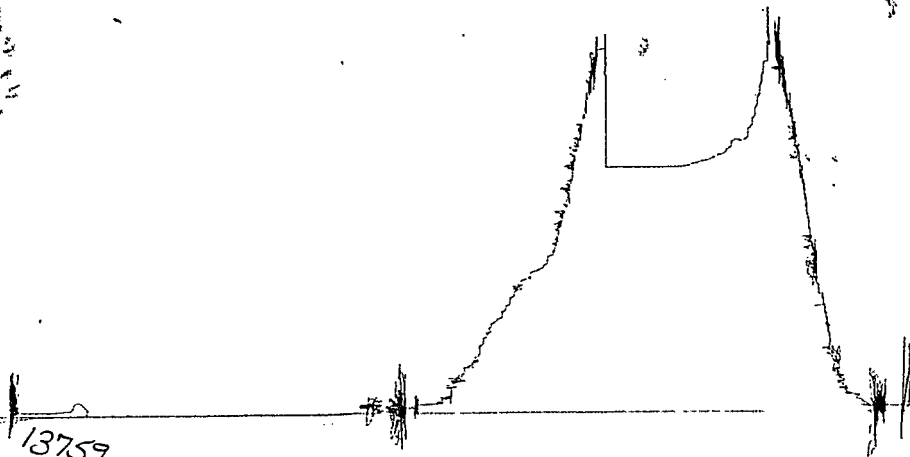
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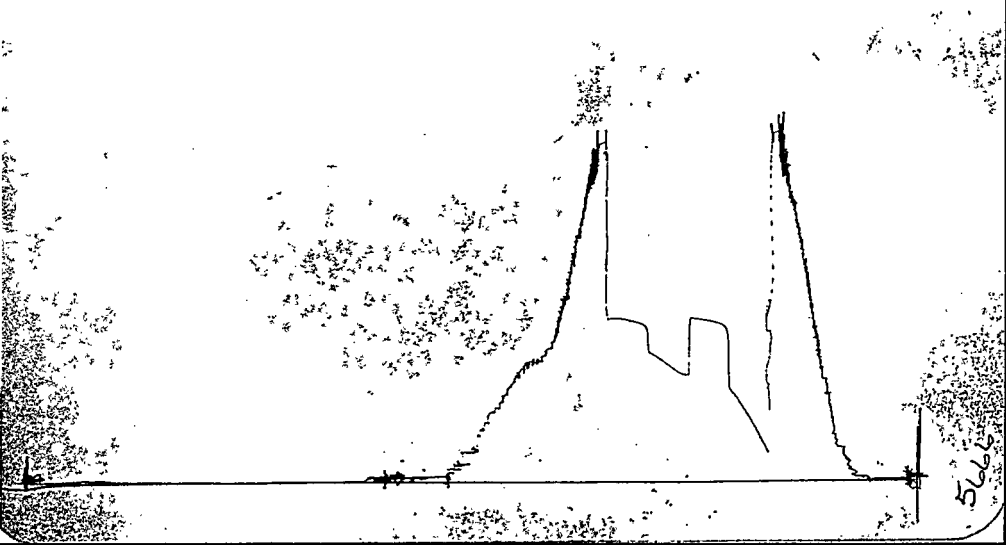
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Below Straddle



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