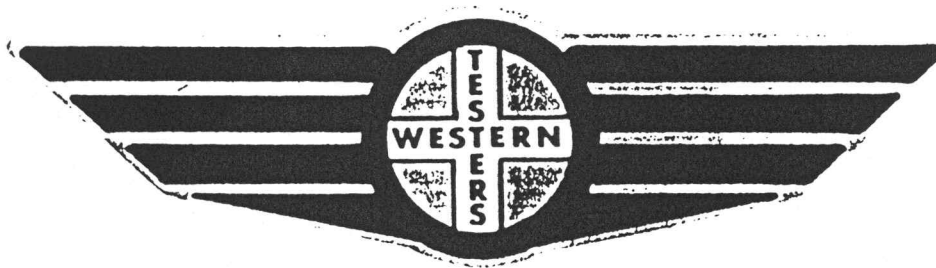


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MID-CONTINENT ENERGY & CROSSWIND PETROLEUM, INC. LEASE & WELL NO. LEWIS A #1 SEC. 32 TWP. 8S RGE. 17W TEST NO. 1 DATE 7/10/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-10-87 TICKET : 12141
CUSTOMER : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
WELL : #1 TEST: 1 LEASE : LEWIS "A"
ELEVATION : 2004 KB GEOLOGIST : J. ALBERTS
SECTION : 32 FORMATION : LANSING
RANGE : 17W COUNTY : ROOKS TOWNSHIP : 8S
GAUGE SN# : 1566 RANGE : 4300 STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3175 TO : 3225 TOTAL DEPTH : 3225
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3170 SIZE : 6.75
PACKER DEPTH : 3175 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG #8
MUD TYPE : STARCH VISCOSITY : 42
WEIGHT : 9.3 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 26000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 60 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2705 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 50 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-DEAD IN 20 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-DEAD IN 10 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
RIG : ROOKS-KANSAS
FIELD : LEWIS "A"
WELL : #1
DATE : 7-10-87
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM

WELL : #1
 GAUGE # : 1566
 DATE : 10/ 7/87

FIELD : LEWIS "A"
 JOB # : 12141
 DEPTH : 3225
 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	10:20: 0	0.000	46.000	108.00	0.000
2	10:24:59	0.083	46.000	108.00	0.000
3	10:30: 0	0.167	46.000	108.00	0.000
4	10:35: 0	0.250	46.000	108.00	0.000
5	10:39:59	0.333	46.000	108.00	0.000
6	10:45: 0	0.417	46.000	108.00	0.000
7	10:50: 0	0.500	46.000	108.00	0.000
8	10:53: 0	0.550	46.000	108.00	0.000
9	10:56: 0	0.600	48.000	108.00	2.000
10	10:59: 0	0.650	66.000	108.00	18.000
11	11: 2: 0	0.700	190.000	108.00	124.000
12	11: 5: 0	0.750	335.000	108.00	145.000
13	11: 8: 0	0.800	411.000	108.00	76.000
14	11:11: 0	0.850	450.000	108.00	39.000
15	11:14: 0	0.900	470.000	108.00	20.000
16	11:17: 0	0.950	486.000	108.00	16.000
17	11:20: 0	1.000	498.000	108.00	12.000
18	11:23: 0	1.050	506.000	108.00	8.000
19	11:24: 0	1.067	71.000	108.00	-435.000
20	11:27:59	1.133	71.000	108.00	0.000
21	11:33: 0	1.217	71.000	108.00	0.000
22	11:38: 0	1.300	69.000	108.00	-2.000
23	11:42:59	1.383	69.000	108.00	0.000
24	11:48: 0	1.467	79.000	108.00	10.000
25	11:51: 0	1.517	146.000	108.00	67.000
26	11:54: 0	1.567	283.000	108.00	137.000
27	11:57: 0	1.617	374.000	108.00	91.000
28	12: 0: 0	1.667	421.000	108.00	47.000
29	12: 3: 0	1.717	452.000	108.00	31.000
30	12: 6: 0	1.767	472.000	108.00	20.000
31	12: 9: 0	1.817	489.000	108.00	17.000
32	12:12: 0	1.867	497.000	108.00	8.000
33	12:15: 0	1.917	506.000	108.00	9.000
34	12:18: 0	1.967	512.000	108.00	6.000
35	12:21: 0	2.017	516.000	108.00	4.000

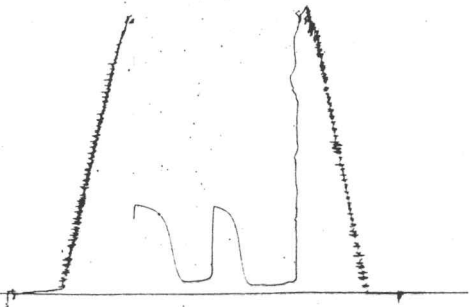
WESTERN TESTING CO. INC.

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Mid-Cent

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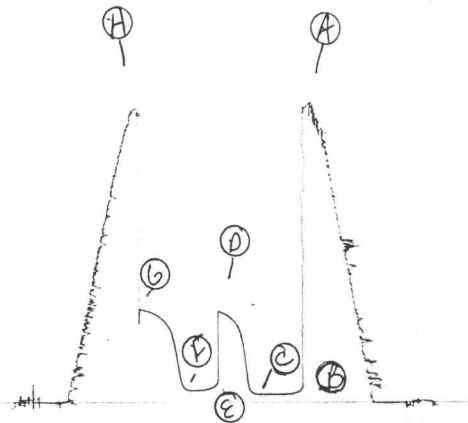
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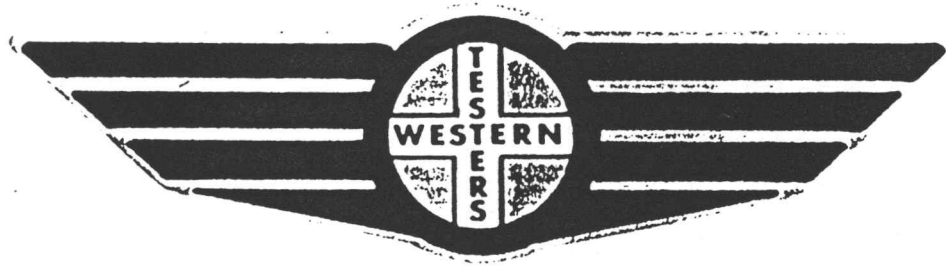
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MID-CONT.
P&T 1

Kit # 12141
I



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-11-87 TICKET : 12142
CUSTOMER : MID CONTINENT ENERGY & CROSS WIND PETROLEUM
WELL : #1 TEST: 2 LEASE : LEWIS "A"
ELEVATION : 2004 KB GEOLOGIST : J. ALBERTS
SECTION : 32 FORMATION : LANSING
RANGE : 17W COUNTY : ROOKS TOWNSHIP : 8S
GAUGE SN# : 1566 RANGE : 4300 STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3222 TO : 3270 TOTAL DEPTH : 3270
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3217 SIZE : 6.75
PACKER DEPTH : 3222 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG #8
MUD TYPE : STARCH VISCOSITY : 41
WEIGHT : 9.4 WATER LOSS (CC) : 13.6
CHLORIDES (PPM) : 23000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 60 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2752 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
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 : WEAK BLOW THRU BOTH FLOW PERIODS- 1/2" IN BUCKET
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 80 FT OF: SLIGHTLY OIL CUT WATERY MUD
80% MUD-2% OIL 3% GAS-15% WATER

CHLORIDES: 49000 PPM

Total Barrels Fluid = 0.42
Total Fluid Prod Rate = 6.78 BFPD
Indicated Oil Rate = 0.14 BOPD
Indicated Wtr Rate = 1.53 BWPD

REMARK 1 :
REMARK 2 : HIT BRIDGE 1500 FEET OFF BOTTOM GOING INTO HOLE WITH TOOL
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:35 PM TIME STARTED OFF BOTTOM : 3:35 PM
WELL TEMPERATURE : 108
INITIAL HYDROSTATIC PRESSURE (A) 1679
INITIAL FLOW PERIOD MIN: 30 (B) 44 PSI TO (C) : 44
INITIAL CLOSED IN PERIOD MIN: 30 (D) 738
FINAL FLOW PERIOD MIN: 60 (E) 63 PSI TO (F) : 63
FINAL CLOSED IN PERIOD MIN: 57 (G) 750
FINAL HYDROSTATIC PRESSURE (H) 1679

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID CONTINENT ENERGY & CROSS WIND PETROLEUM
RIG : ROOKS-KANSAS
FIELD : LEWIS "A"
WELL : #1
DATE : 7-11-87
GAUGE NO : 1566

OPERATIONAL COMMENTS

HIT BRIDGE 1500 FEET OFF BOTTOM GOING INTO HOLE WITH TOOL

COMPANY : MID CONTINENT ENERGY & CROSS WIND PETROLEUM
 FIELD : LEWIS "A"

WELL : #1
 GAUGE # : 1566
 DATE : 11/ 7/87

JOB # : 12142
 DEPTH : 3270
 TEST :

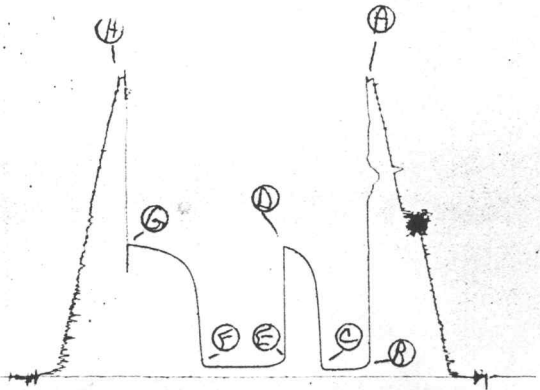
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	12:35: 0	0.000	44.000	108.00	0.000
2	12:39:59	0.083	44.000	108.00	0.000
3	12:45: 0	0.167	44.000	108.00	0.000
4	12:50: 0	0.250	44.000	108.00	0.000
5	12:54:59	0.333	44.000	108.00	0.000
6	13: 0: 0	0.417	44.000	108.00	0.000
7	13: 5: 0	0.500	44.000	108.00	0.000
8	13: 8: 0	0.550	303.000	108.00	259.000
9	13:11: 0	0.600	531.000	108.00	228.000
10	13:14: 0	0.650	606.000	108.00	75.000
11	13:17: 0	0.700	652.000	108.00	46.000
12	13:20: 0	0.750	678.000	108.00	26.000
13	13:23: 0	0.800	698.000	108.00	20.000
14	13:26: 0	0.850	713.000	108.00	15.000
15	13:29: 0	0.900	724.000	108.00	11.000
16	13:32: 0	0.950	733.000	108.00	9.000
17	13:35: 0	1.000	738.000	108.00	5.000
18	13:36: 0	1.017	63.000	108.00	-675.000
19	13:39:59	1.083	63.000	108.00	0.000
20	13:45: 0	1.167	63.000	108.00	0.000
21	13:50: 0	1.250	63.000	108.00	0.000
22	13:54:59	1.333	63.000	108.00	0.000
23	14: 0: 0	1.417	63.000	108.00	0.000
24	14: 5: 0	1.500	63.000	108.00	0.000
25	14: 9:59	1.583	63.000	108.00	0.000
26	14:15: 0	1.667	63.000	108.00	0.000
27	14:20: 0	1.750	63.000	108.00	0.000
28	14:24:59	1.833	63.000	108.00	0.000
29	14:30: 0	1.917	63.000	108.00	0.000
30	14:35: 0	2.000	63.000	108.00	0.000
31	14:38: 0	2.050	250.000	108.00	187.000
32	14:41: 0	2.100	481.000	108.00	231.000
33	14:44: 0	2.150	567.000	108.00	86.000
34	14:47: 0	2.200	615.000	108.00	48.000
35	14:50: 0	2.250	641.000	108.00	26.000
36	14:53: 0	2.300	662.000	108.00	21.000
37	14:56: 0	2.350	675.000	108.00	13.000
38	14:59: 0	2.400	687.000	108.00	12.000
39	15: 2: 0	2.450	698.000	108.00	11.000
40	15: 5: 0	2.500	709.000	108.00	11.000
41	15: 8: 0	2.550	717.000	108.00	8.000
42	15:11: 0	2.600	723.000	108.00	6.000
43	15:14: 0	2.650	729.000	108.00	6.000
44	15:17: 0	2.700	733.000	108.00	4.000
45	15:20: 0	2.750	738.000	108.00	5.000
46	15:23: 0	2.800	740.000	108.00	2.000
47	15:26: 0	2.850	743.000	108.00	3.000
48	15:29: 0	2.900	747.000	108.00	4.000
49	15:32: 0	2.950	750.000	108.00	3.000

7566

TK 12142

MID-CENT
DST 2

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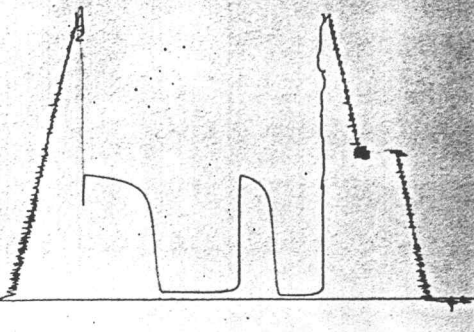


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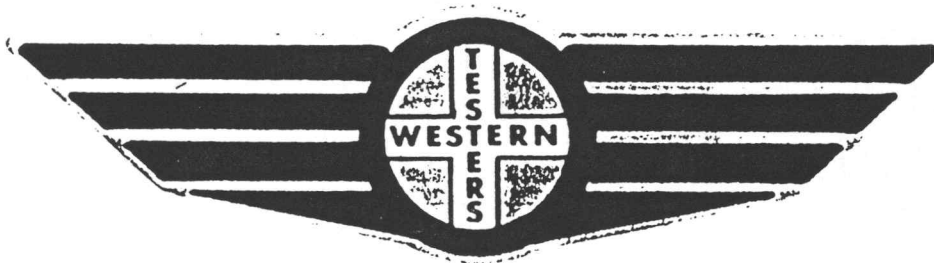
TKA 12142

MID-COAST
DST 2

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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. LEWIS A #1 SEC. 32 TWP. 8S RGE. 17W TEST NO. 3 DATE 7/12/87
CROSSWIND PETROLEUM

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-12-87 TICKET : 12143
CUSTOMER : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
WELL : #1 TEST: 3 LEASE : LEWIS "A"
ELEVATION : 2004 KB GEOLOGIST : J. ALBERTS
SECTION : 32 FORMATION : ARBUCKLE
RANGE : 17W COUNTY : ROOKS TOWNSHIP : 8S
GAUGE SN# : 1566 RANGE : 4300 STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3420 TO : 3431 TOTAL DEPTH : 3431
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3415 SIZE : 6.75
PACKER DEPTH : 3420 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN DRLG. RIG #8
MUD TYPE : STARCH VISCOSITY : 51
WEIGHT : 9.3 WATER LOSS (CC) : 11.6
CHLORIDES (PPM) : 19000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 60 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2950 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 11 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-1/4" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-1/4" IN BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: GASSY OIL
RECOVERED : 60 FT OF: HEAVY OIL CUT MUD
40% MUD-50% OIL-10% WATER
CHLORIDES: 21000 PPM
25 GRAVITY @ 84 DEG. F. 23 CORRECTED

Total Barrels Fluid = 0.71
Total Fluid Prod Rate = 11.31 BFPD
Indicated Oil Rate = 8.48 BOPD
Indicated Wtr Rate = 0.57 BWPD
Corrected Oil Rate = 4.04 BOPD
Corrected Wtr Rate = 0.27 BWPD

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

SET PACKER(S) : 11:55 AM TIME STARTED OFF BOTTOM : 3:25 PM
WELL TEMPERATURE : 111
INITIAL HYDROSTATIC PRESSURE (A) 1826
INITIAL FLOW PERIOD MIN: 30 (B) 35 PSI TO (C) : 35
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1094
FINAL FLOW PERIOD MIN: 60 (E) 52 PSI TO (F) : 52
FINAL CLOSED IN PERIOD MIN: 60 (G) 1085
FINAL HYDROSTATIC PRESSURE (H) 1780

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
RIG : ROOKS-KANSAS
FIELD : LEWIS "A"
WELL : #1
DATE : 7-12-87
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
 FIELD : LEWIS "A"
 WELL : #1
 GAUGE # : 1566
 DATE : 12/ 7/87
 JOB # : 12143
 DEPTH : 3431
 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	11:55: 0	0.000	35.000	111.00	0.000
2	11:59:59	0.083	35.000	111.00	0.000
3	12: 5: 0	0.167	35.000	111.00	0.000
4	12:10: 0	0.250	35.000	111.00	0.000
5	12:14:59	0.333	35.000	111.00	0.000
6	12:20: 0	0.417	35.000	111.00	0.000
7	12:25: 0	0.500	35.000	111.00	0.000
8	12:28: 0	0.550	333.000	111.00	298.000
9	12:31: 0	0.600	681.000	111.00	348.000
10	12:34: 0	0.650	821.000	111.00	140.000
11	12:37: 0	0.700	887.000	111.00	66.000
12	12:40: 0	0.750	941.000	111.00	54.000
13	12:43: 0	0.800	971.000	111.00	30.000
14	12:46: 0	0.850	997.000	111.00	26.000
15	12:49: 0	0.900	1020.000	111.00	23.000
16	12:52: 0	0.950	1035.000	111.00	15.000
17	12:55: 0	1.000	1046.000	111.00	11.000
18	12:58: 0	1.050	1058.000	111.00	12.000
19	13: 1: 0	1.100	1066.000	111.00	8.000
20	13: 4: 0	1.150	1073.000	111.00	7.000
21	13: 7: 0	1.200	1080.000	111.00	7.000
22	13:10: 0	1.250	1083.000	111.00	3.000
23	13:13: 0	1.300	1087.000	111.00	4.000
24	13:16: 0	1.350	1091.000	111.00	4.000
25	13:19: 0	1.400	1092.000	111.00	1.000
26	13:22: 0	1.450	1093.000	111.00	1.000
27	13:25: 0	1.500	1094.000	111.00	1.000
28	13:26: 0	1.517	52.000	111.00	-1042.000
29	13:29:59	1.583	52.000	111.00	0.000
30	13:35: 0	1.667	52.000	111.00	0.000
31	13:40: 0	1.750	52.000	111.00	0.000
32	13:44:59	1.833	52.000	111.00	0.000
33	13:50: 0	1.917	52.000	111.00	0.000
34	13:55: 0	2.000	52.000	111.00	0.000
35	13:59:59	2.083	52.000	111.00	0.000
36	14: 5: 0	2.167	52.000	111.00	0.000
37	14:10: 0	2.250	52.000	111.00	0.000
38	14:14:59	2.333	52.000	111.00	0.000
39	14:20: 0	2.417	52.000	111.00	0.000
40	14:25: 0	2.500	52.000	111.00	0.000
41	14:28: 0	2.550	245.000	111.00	193.000
42	14:31: 0	2.600	583.000	111.00	338.000
43	14:34: 0	2.650	755.000	111.00	172.000
44	14:37: 0	2.700	841.000	111.00	86.000
45	14:40: 0	2.750	904.000	111.00	63.000
46	14:43: 0	2.800	944.000	111.00	40.000
47	14:46: 0	2.850	972.000	111.00	28.000
48	14:49: 0	2.900	995.000	111.00	23.000
49	14:52: 0	2.950	1012.000	111.00	17.000
50	14:55: 0	3.000	1024.000	111.00	12.000
51	14:58: 0	3.050	1036.000	111.00	12.000
52	15: 1: 0	3.100	1046.000	111.00	10.000

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM

FIELD : LEWIS "A"

WELL : #1

JOB # : 12143

GAUGE # : 1566

DEPTH : 3431

DATE : 12/ 7/87

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	15: 4: 0	3.150	1057.000	111.00	11.000
54	15: 7: 0	3.200	1064.000	111.00	7.000
55	15:10: 0	3.250	1068.000	111.00	4.000
56	15:13: 0	3.300	1074.000	111.00	6.000
57	15:16: 0	3.350	1077.000	111.00	3.000
58	15:19: 0	3.400	1080.000	111.00	3.000
59	15:22: 0	3.450	1083.000	111.00	3.000
60	15:25: 0	3.500	1085.000	111.00	2.000

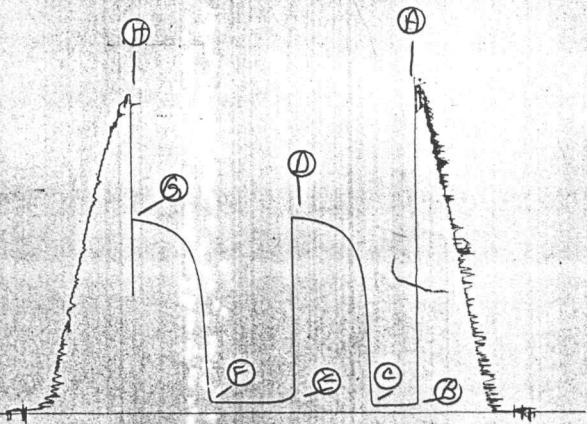
WESTERN TESTING CO. INC.

1566

KA 12143

mid-coast
DST 3

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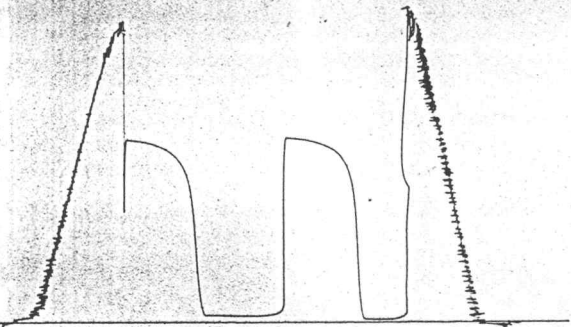


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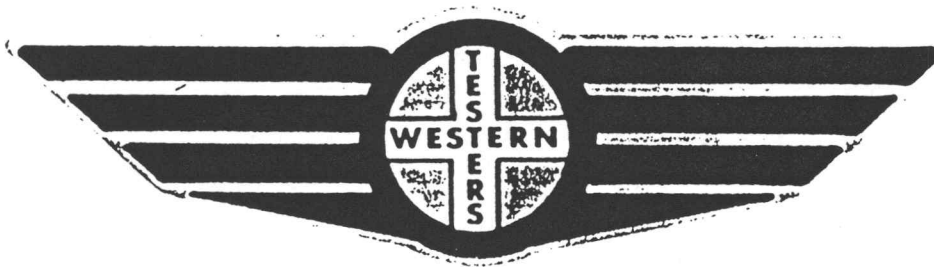
TKA 12/42

MID-CONT
DST 3

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-12-87 TICKET : 12144
CUSTOMER : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
WELL : #1 TEST: 4 LEASE : LEWIS "A"
ELEVATION : 2004 KB GEOLOGIST : J. ALBERTS
SECTION : 32 FORMATION : ARBUCKLE
RANGE : 17W COUNTY : ROOKS TOWNSHIP : 8S
GAUGE SN# : 1566 RANGE : 4300 STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3420 TO : 3436 TOTAL DEPTH : 3436
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3415 SIZE : 6.75
PACKER DEPTH : 3420 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG #8
MUD TYPE : STARCH VISCOSITY : 51
WEIGHT : 9.3 WATER LOSS (CC) : 11.6
CHLORIDES (PPM) : 19000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 60 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2950 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 16 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-BOTTOM OF BUCKET 2 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET 5 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 110 FT OF: OIL CUT MUDDY WATER
35% OIL-45% WATER-20% MUD
RECOVERED : 540 FT OF: HEAVY OIL CUT WATER
45% OIL-55% WATER
RECOVERED : 180 FT OF: OIL CUT MUDDY WATER
20% OIL-75% WATER-5% MUD
RECOVERED : 540 FT OF: OIL CUT MUDDY WATER
20% OIL-75% WATER-5% MUD

CHLORIDES: 39000 PPM

Total Barrels Fluid = 3.95
Total Fluid Prod Rate = 94.83 BFPD
Indicated Oil Rate = 29.45 BOPD
Indicated Wtr Rate = 61.37 BWPD

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

SET PACKER(S) : 12:55 AM
WELL TEMPERATURE : 111

TIME STARTED OFF BOTTOM : 3:55 AM

INITIAL HYDROSTATIC PRESSURE		(A)	1823	
INITIAL FLOW PERIOD	MIN: 30	(B)	177	PSI TO (C) : 423
INITIAL CLOSED IN PERIOD	MIN: 63	(D)	1101	
FINAL FLOW PERIOD	MIN: 30	(E)	514	PSI TO (F) : 633
FINAL CLOSED IN PERIOD	MIN: 57	(G)	1098	
FINAL HYDROSTATIC PRESSURE		(H)	1778	

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
RIG : ROOKS-KANSAS
FIELD : LEWIS "A"
WELL : #1
DATE : 7-12-87
GAUGE NO : 1566

OPERATIONAL COMMENTS

WELL : #1

JOB # : 12144

GAUGE # : 1566

DEPTH : 3436

DATE : 12/ 7/87

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	12:55: 0	0.000	177.000	111.00	0.000
2	12:59:59	0.083	189.000	111.00	12.000
3	13: 5: 0	0.167	222.000	111.00	33.000
4	13:10: 0	0.250	270.000	111.00	48.000
5	13:14:59	0.333	323.000	111.00	53.000
6	13:20: 0	0.417	372.000	111.00	49.000
7	13:25: 0	0.500	423.000	111.00	51.000
8	13:28: 0	0.550	983.000	111.00	560.000
9	13:31: 0	0.600	1013.000	111.00	30.000
10	13:34: 0	0.650	1033.000	111.00	20.000
11	13:37: 0	0.700	1046.000	111.00	13.000
12	13:40: 0	0.750	1054.000	111.00	8.000
13	13:43: 0	0.800	1063.000	111.00	9.000
14	13:46: 0	0.850	1067.000	111.00	4.000
15	13:49: 0	0.900	1072.000	111.00	5.000
16	13:52: 0	0.950	1076.000	111.00	4.000
17	13:55: 0	1.000	1079.000	111.00	3.000
18	13:58: 0	1.050	1083.000	111.00	4.000
19	14: 1: 0	1.100	1087.000	111.00	4.000
20	14: 4: 0	1.150	1090.000	111.00	3.000
21	14: 7: 0	1.200	1091.000	111.00	1.000
22	14:10: 0	1.250	1092.000	111.00	1.000
23	14:13: 0	1.300	1093.000	111.00	1.000
24	14:16: 0	1.350	1094.000	111.00	1.000
25	14:19: 0	1.400	1095.000	111.00	1.000
26	14:22: 0	1.450	1096.000	111.00	1.000
27	14:25: 0	1.500	1098.000	111.00	2.000
28	14:28: 0	1.550	1101.000	111.00	3.000
29	14:29: 0	1.567	514.000	111.00	-587.000
30	14:32:59	1.633	514.000	111.00	0.000
31	14:38: 0	1.717	530.000	111.00	16.000
32	14:43: 0	1.800	557.000	111.00	27.000
33	14:47:59	1.883	583.000	111.00	26.000
34	14:53: 0	1.967	613.000	111.00	30.000
35	14:58: 0	2.050	633.000	111.00	20.000
36	15: 1: 0	2.100	1015.000	111.00	382.000
37	15: 3:59	2.150	1040.000	111.00	25.000
38	15: 7: 0	2.200	1050.000	111.00	10.000
39	15:10: 0	2.250	1061.000	111.00	11.000
40	15:13: 0	2.300	1067.000	111.00	6.000
41	15:16: 0	2.350	1071.000	111.00	4.000
42	15:18:59	2.400	1076.000	111.00	5.000
43	15:22: 0	2.450	1079.000	111.00	3.000
44	15:25: 0	2.500	1081.000	111.00	2.000
45	15:28: 0	2.550	1085.000	111.00	4.000
46	15:31: 0	2.600	1088.000	111.00	3.000
47	15:34: 0	2.650	1090.000	111.00	2.000
48	15:36:59	2.700	1092.000	111.00	2.000
49	15:40: 0	2.750	1093.000	111.00	1.000
50	15:43: 0	2.800	1094.000	111.00	1.000
51	15:46: 0	2.850	1095.000	111.00	1.000
52	15:49: 0	2.900	1096.000	111.00	1.000

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM

FIELD : LEWIS "A"

WELL : #1

JOB # : 12144

GAUGE # : 1566

DEPTH : 3436

DATE : 12/ 7/87

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	15:51:59	2.950	1097.000	111.00	1.000
54	15:55: 0	3.000	1098.000	111.00	1.000

WESTERN TESTING CO. INC.

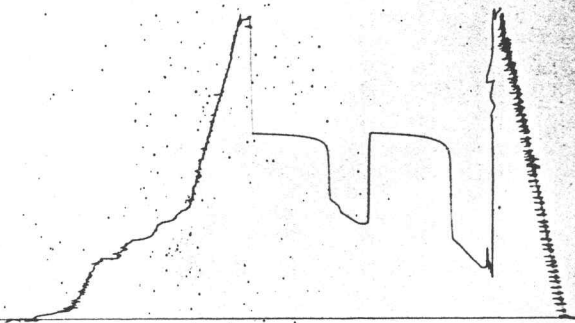
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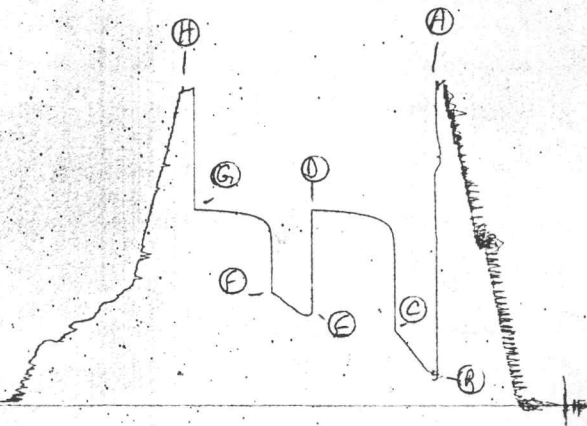


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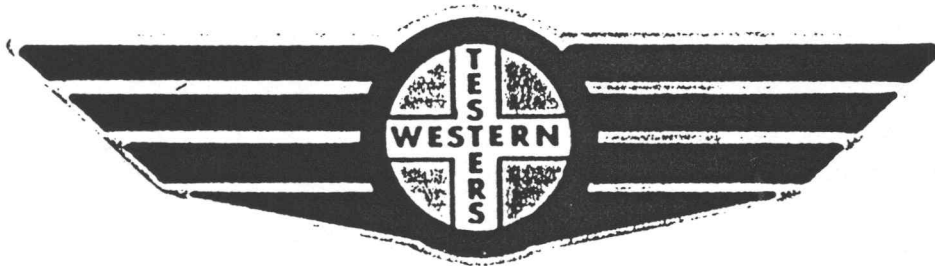
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-13-87 TICKET : 12145
CUSTOMER : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
WELL : #1 TEST: 5 LEASE : LEWIS "A"
ELEVATION : 2004 KB GEOLOGIST : J. ALBERTS
SECTION : 32 FORMATION : ARBUCKLE
RANGE : 17W COUNTY : ROOKS STATE : KANSAS
GAUGE SN# : 1566 RANGE : 4300 CLOCK : 12

INTERVAL FROM : 3452 TO : 3467 TOTAL DEPTH : 3467
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3447 SIZE : 6.75
PACKER DEPTH : 3452 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG #8
MUD TYPE : STARCH VISCOSITY : 41
WEIGHT : 9.3 WATER LOSS (CC) : 10.6
CHLORIDES (PPM) : 29000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? :

DRILL COLLAR LENGTH : 60 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2982 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 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-BOTTOM OF BUCKET 5 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET 10 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 665 FT OF: MUDDY WATER / WITH FEW SPOTS OF OIL

CHLORIDES: 29000 PPM

Total Barrels Fluid = 3.27
Total Fluid Prod Rate = 78.40 BFPD
Indicated Wtr Rate = 39.20 BWPD

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

SET PACKER(S) : 3:15 PM

TIME STARTED OFF BOTTOM : 6:15 PM

WELL TEMPERATURE : 111

INITIAL HYDROSTATIC PRESSURE

(A) 1803

INITIAL FLOW PERIOD MIN: 30

(B) 72 PSI TO (C) : 192

INITIAL CLOSED IN PERIOD MIN: 63

(D) 1109

FINAL FLOW PERIOD MIN: 30

(E) 259 PSI TO (F) : 311

FINAL CLOSED IN PERIOD MIN: 60

(G) 1107

FINAL HYDROSTATIC PRESSURE

(H) 1756

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM
RIG : ROOKS-KANSAS
FIELD : LEWIS "A"
WELL : #1
DATE : 7-13-87
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM

FIELD : LEWIS "A"

WELL : #1

JOB # : 12145

GAUGE # : 1566

DEPTH : 3467

DATE : 13/ 7/87

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:15:0	0.000	72.000	111.00	0.000
2	3:19:59	0.083	72.000	111.00	0.000
3	3:25:0	0.167	81.000	111.00	9.000
4	3:30:0	0.250	109.000	111.00	28.000
5	3:34:59	0.333	143.000	111.00	34.000
6	3:40:0	0.417	173.000	111.00	30.000
7	3:45:0	0.500	192.000	111.00	19.000
8	3:48:0	0.550	695.000	111.00	503.000
9	3:51:0	0.600	968.000	111.00	273.000
10	3:54:0	0.650	1016.000	111.00	48.000
11	3:57:0	0.700	1039.000	111.00	23.000
12	4:0:0	0.750	1055.000	111.00	16.000
13	4:3:0	0.800	1066.000	111.00	11.000
14	4:6:0	0.850	1075.000	111.00	9.000
15	4:9:0	0.900	1081.000	111.00	6.000
16	4:12:0	0.950	1085.000	111.00	4.000
17	4:15:0	1.000	1090.000	111.00	5.000
18	4:18:0	1.050	1095.000	111.00	5.000
19	4:21:0	1.100	1097.000	111.00	2.000
20	4:24:0	1.150	1099.000	111.00	2.000
21	4:27:0	1.200	1101.000	111.00	2.000
22	4:30:0	1.250	1103.000	111.00	2.000
23	4:33:0	1.300	1104.000	111.00	1.000
24	4:36:0	1.350	1105.000	111.00	1.000
25	4:39:0	1.400	1106.000	111.00	1.000
26	4:42:0	1.450	1107.000	111.00	1.000
27	4:45:0	1.500	1108.000	111.00	1.000
28	4:48:0	1.550	1109.000	111.00	1.000
29	4:49:0	1.567	259.000	111.00	-850.000
30	4:52:59	1.633	259.000	111.00	0.000
31	4:58:0	1.717	263.000	111.00	4.000
32	5:3:0	1.800	270.000	111.00	7.000
33	5:7:59	1.883	282.000	111.00	12.000
34	5:13:0	1.967	299.000	111.00	17.000
35	5:18:0	2.050	311.000	111.00	12.000
36	5:21:0	2.100	823.000	111.00	512.000
37	5:23:59	2.150	1000.000	111.00	177.000
38	5:27:0	2.200	1025.000	111.00	25.000
39	5:30:0	2.250	1044.000	111.00	19.000
40	5:33:0	2.300	1060.000	111.00	16.000
41	5:36:0	2.350	1070.000	111.00	10.000
42	5:38:59	2.400	1077.000	111.00	7.000
43	5:42:0	2.450	1085.000	111.00	8.000
44	5:45:0	2.500	1088.000	111.00	3.000
45	5:48:0	2.550	1092.000	111.00	4.000
46	5:51:0	2.600	1094.000	111.00	2.000
47	5:54:0	2.650	1096.000	111.00	2.000
48	5:56:59	2.700	1098.000	111.00	2.000
49	6:0:0	2.750	1100.000	111.00	2.000
50	6:3:0	2.800	1102.000	111.00	2.000
51	6:6:0	2.850	1103.000	111.00	1.000
52	6:9:0	2.900	1104.000	111.00	1.000

COMPANY : MID-CONTINENT ENERGY & CROSS WIND PETROLEUM

FIELD : LEWIS "A"

WELL : #1

JOB # : 12145

GAUGE # : 1566

DEPTH : 3467

DATE : 13/ 7/87

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
53	6:11:59	2.950	1105.000	111.00	1.000
54	6:15: 0	3.000	1106.000	111.00	1.000
55	6:18: 0	3.050	1107.000	111.00	1.000

WESTERN TESTING CO. INC.

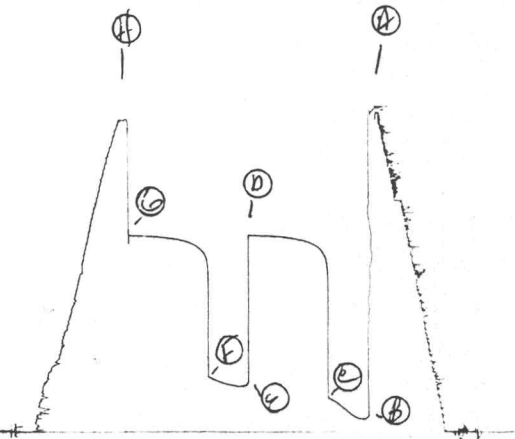
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