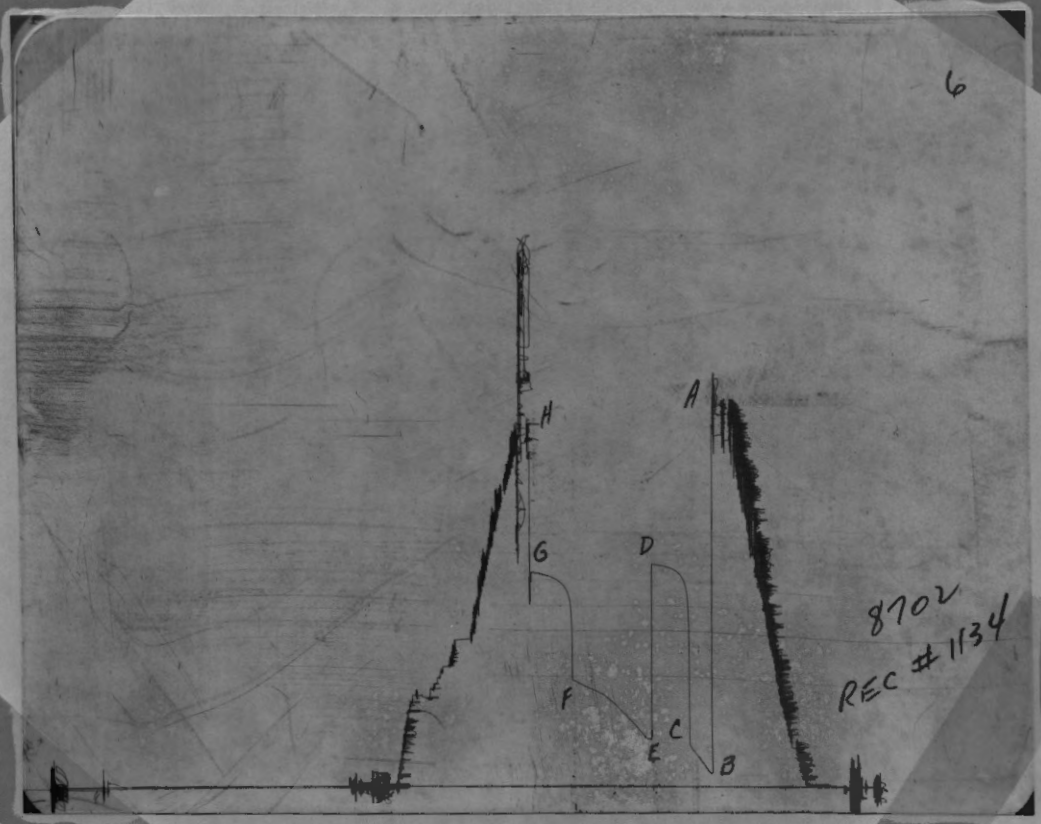


Tool Open: 1st Flow ___ hr. 15 mins: Shut-in Initial ___ hr. 30 min: 2nd Flow 1 hr. ___ min: Shut-in Final ___ hr. 30 mi

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2167	2099
(B) Initial 1st Flow Pressure	78	78
(C) Final 1st Flow Pressure	223	237
(D) Initial Shut-in Pressure	1280	1291
(E) Initial 2nd Flow Pressure	268	270
(F) Final 2nd Flow Pressure	613	615
(G) Final Shut-in Pressure	1236	1245
(H) Final Hydrostatic Pressure	2122	2032

8702

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. WOERPEL #1

County RAWLINS State KANSAS Date FEB. 10, 1968

Formation Test No. 1 Total Depth 3920 Elev. 2870 DF

Interval Tested 3862 To 3920 Anchor Length 58'

Size Hole 6 1/4 Size Drill Pipe 3 1/2 I F Size Packer 5 1/2

Mud Weight 10.2 Viscosity 42 Water Loss 10.4 c.c. Bottom Hole Temp. 122 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8702

RECOVERY

STRONG BLOW DECREASING TO FAIR IN 1 HOUR.

360 FEET OF MUD

480 FEET OF MUDDY WATER

480 FEET OF WATER

Lease and Well No. WOERPEL #1 13 5S 31W C NE SW Formation Test No. 1

COMPANY MULL DRILLING CO., INC. DATE FEB. 10. 1968

LEASE WOERPEL WELL NO. 1 TEST NO 1 TICKET NO. 8702

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2099
INITIAL CLOSED IN PRESSURE	30 MINS.	1291
INITIAL FLOW	15 "	78 to 237
FINAL FLOW	60 "	270 to 615
FINAL CLOSED IN PRESSURE	30 "	1245
FINAL HYDRO MUD PRESSURE		2032

TOTAL DEPTH 3920

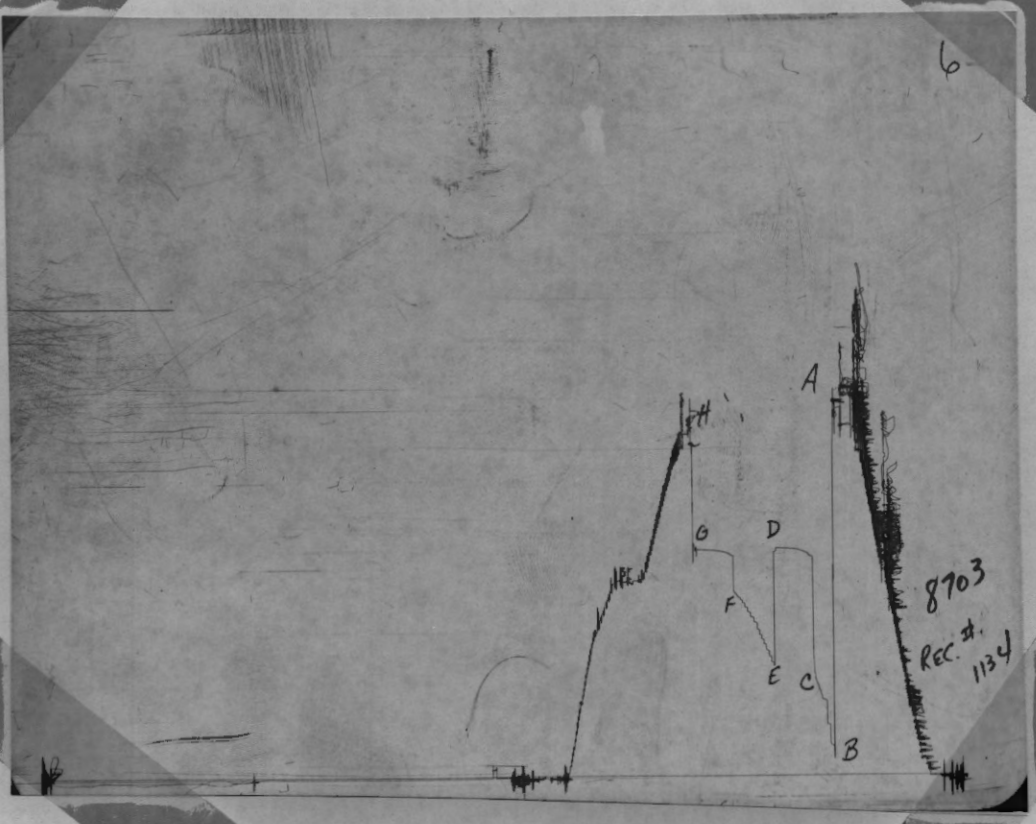
PACKER DEPTH 3862

BT. NO. 1134 DEPTH 3915

	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.
P0		78		237		270		615
P1		134		1169		335		1164
P2		190		1236		413		1202
P3		237		1260		491		1222
P4				1280		546		1227
P5				1287		579		1240
P6				1291		615		1245
P7								
P8								
P9								
P10								
	5 MINUTE INTERVAL		5 MINUTE INTERVAL		10 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS

SPECIAL PRESSURE DATA



Tool Open: 1st Flow hr. 15 mins: Shut-in Initial hr 30 min: 2nd Flow hr. 30 min: Shut-in Final hr. 30 m

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2167	2144
(B) Initial 1st Flow Pressure	101	98
(C) Final 1st Flow Pressure	591	668
(D) Initial Shut-in Pressure	1325	1314
(E) Initial 2nd Flow Pressure	635	630
(F) Final 2nd Flow Pressure	1068	1068
(G) Final Shut-in Pressure	1303	1311
(H) Final Hydrostatic Pressure	1987	1986

8703

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. WOERPEL #1

County RAWLINS State KANSAS Date FEB. 11, 1968

Formation Test No. 2 Total Depth 3945 Elev. 2870 DF

Interval Tested 3918 To 3945 Anchor Length 27'

Size Hole 6 1/4 Size Drill Pipe 3 1/2 I F Size Packer 5 1/2

Mud Weight 10.2 Viscosity 46 Water Loss 11.4 c.c. Bottom Hole Temp. 130 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8703

RECOVERY

STRONG BLOW

360 FEET OF MUDDY WATER WITH SPECKS OF OIL

2000 FEET OF WATER NEARLY CLEAR

Lease and Well No. WOERPEL #1 13 5S 31W C NE SW Formation Test No. 2

COMPANY MULL DRILLING CO., INC. DATE FEB. 11, 1968

LEASE WOERPEL WELL NO. 1 TEST NO. 2 TICKET NO. 8703

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2144
INITIAL CLOSED IN PRESSURE	30 MINS.	1314
INITIAL FLOW	15 "	98 to 668
FINAL FLOW	30 "	630 to 1068
FINAL CLOSED IN PRESSURE	30 "	1311
FINAL HYDRO MUD PRESSURE		1986

TOTAL DEPTH 3945

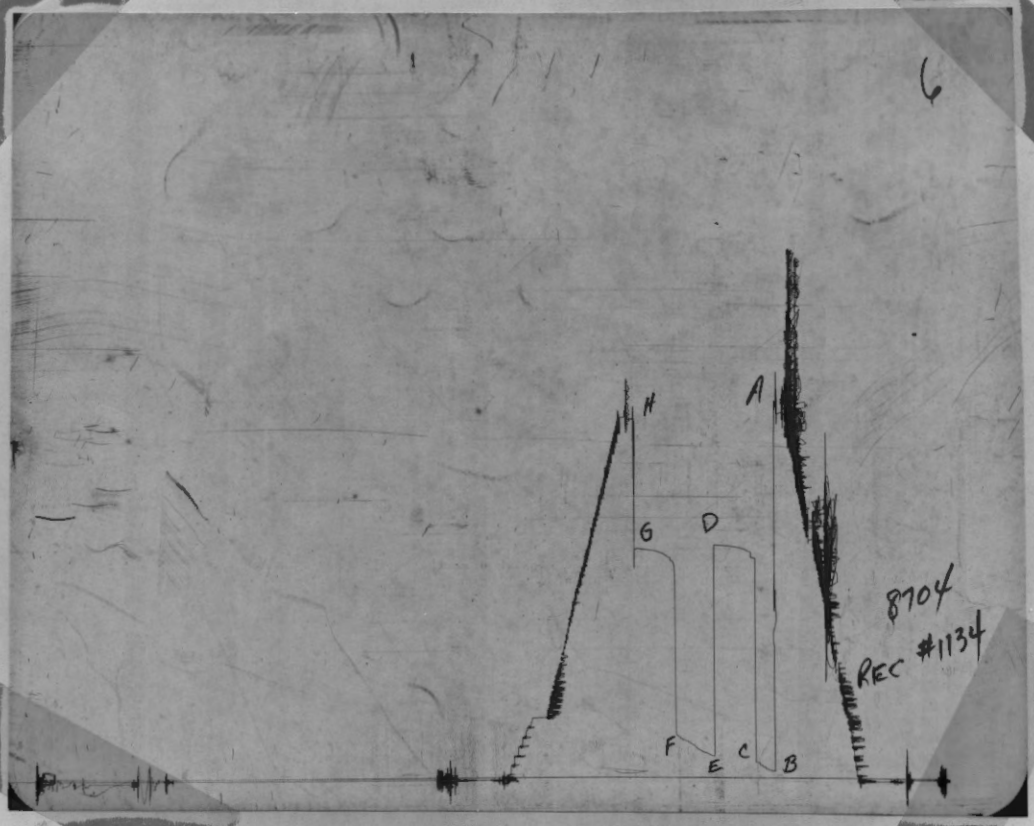
PACKER DEPTH 3918

BT. NO. 1134 DEPTH 3940

	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.
P0		98		668		630		1068
P1		313		1291		724		1278
P2		469		1307		823		1294
P3		668		1311		923		1305
P4				1314		985		1307
P5				1314		1035		1311
P6				1314		1068		1311
P7								
P8								
P9								
P10								
	5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 15 mins: Shut-in Initial ___ hr. 30 min: 2nd Flow ___ hr 30 min: Shut-in Final ___ hr 30 m

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2088	2133
(B) Initial 1st Flow Pressure	45	36
(C) Final 1st Flow Pressure	90	90
(D) Initial Shut-in Pressure	1336	1336
(E) Initial 2nd Flow Pressure	112	123
(F) Final 2nd Flow Pressure	246	246
(G) Final Shut-in Pressure	1314	1316
(H) Final Hydrostatic Pressure	2065	2076

8704

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. WOERPEL #1

County RAWLINS State KANSAS Date FEB. 12, 1968

Formation Test No. 3 Total Depth 3985 Elev. 2870 DF

Interval Tested 3950 To 3985 Anchor Length 35'

Size Hole 6 1/4 Size Drill Pipe 3 1/2 I F Size Packer 5 1/2

Mud Weight 10.2 Viscosity 46 Water Loss 11.4 c.c. Bottom Hole Temp. 112 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8704

RECOVERY

STRONG BLOW THROUGHOUT TEST

565 FEET OF FREE OIL

60 FEET OF MUDDY OIL ON BOTTOM

625 FEET OF TOTAL FLUID

Lease and Well No. WOERPEL #1 13 5S 31W C NE SW Formation Test No. 3

COMPANY MULL DRILLING COMPANY, INC. DATE FEB. 12, 1968

LEASE WOERPEL WELL NO. 1 TEST NO. 3 TICKET NO. 8704

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2133
INITIAL CLOSED IN PRESSURE	30 MINS.	1336
INITIAL FLOW	15 "	36 to 90
FINAL FLOW	30 "	123 to 246
FINAL CLOSED IN PRESSURE	30 "	1316
FINAL HYDRO MUD PRESSURE		2076

TOTAL DEPTH 3985

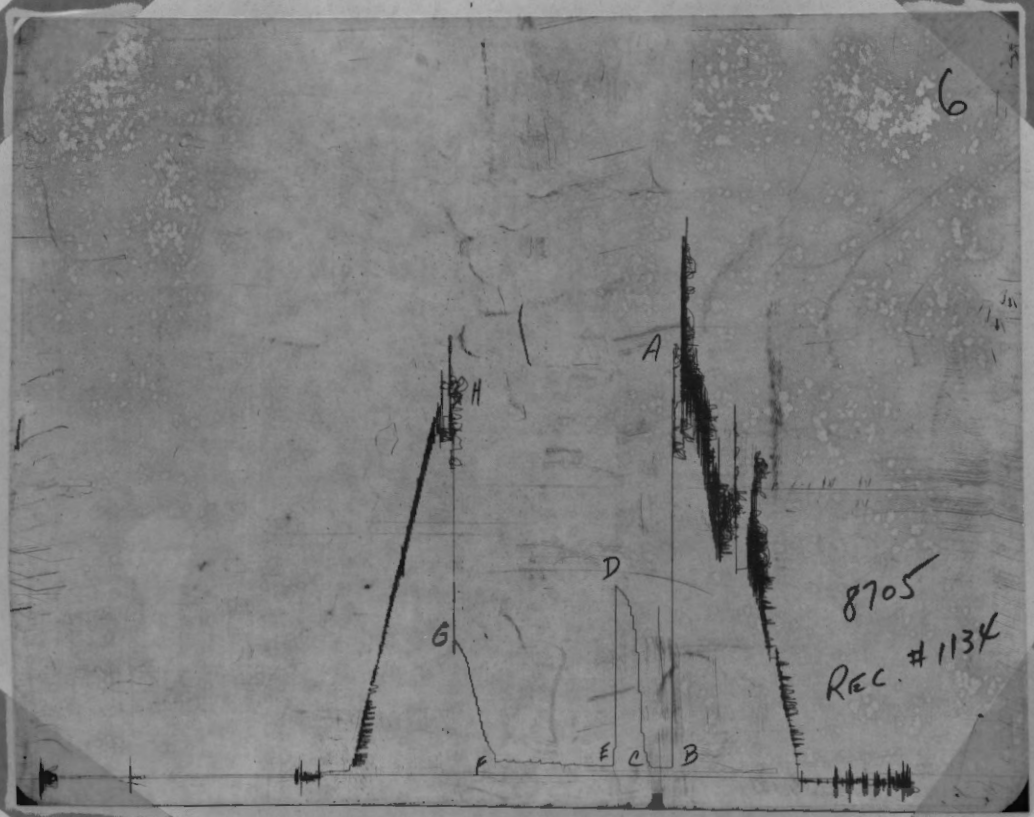
PACKER DEPTH 3950

BT. NO. 1134 DEPTH 3980

	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.	TIME DEFL. .000"	PSI TEMP. CORR.
P0		36		90		123		246
P1		56		1303		134		1258
P2		74		1316		150		1287
P3		90		1325		179		1300
P4				1332		201		1309
P5				1336		219		1314
P6				1336		246		1316
P7								
P8								
P9								
P10								
	5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 15 mins: Shut-in Initial ___ hr. 30 min: 2nd Flow 1 ___ hr. 30 min: Shut-in Final ___ hr. 30 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2234	2200
(B) Initial 1st Flow Pressure	67	47
(C) Final 1st Flow Pressure	45	47
(D) Initial Shut-in Pressure	1113	1113
(E) Initial 2nd Flow Pressure	56	58
(F) Final 2nd Flow Pressure	78	78
(G) Final Shut-in Pressure	790	783
(H) Final Hydrostatic Pressure	2201	2121

8705

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. WOERPEL #1

County RAWLINS State KANSAS Date FEB. 13, 1968

Formation Test No. 4 Total Depth 4095 Elev. 2870 DF

Interval Tested 4030 To 4095 Anchor Length 65'

Size Hole 6 1/4 Size Drill Pipe 3 1/2 I F Size Packer 5 1/2

Mud Weight 10.1 Viscosity 47 Water Loss 10 c.c. Bottom Hole Temp. 121 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 8705

RECOVERY

WEAK BLOW THROUGHOUT TEST

90 FEET OF HEAVY OIL CUT MUD