

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. STOPPEL # 1

County NESS State KANSAS

Date JANUARY 10, 1973

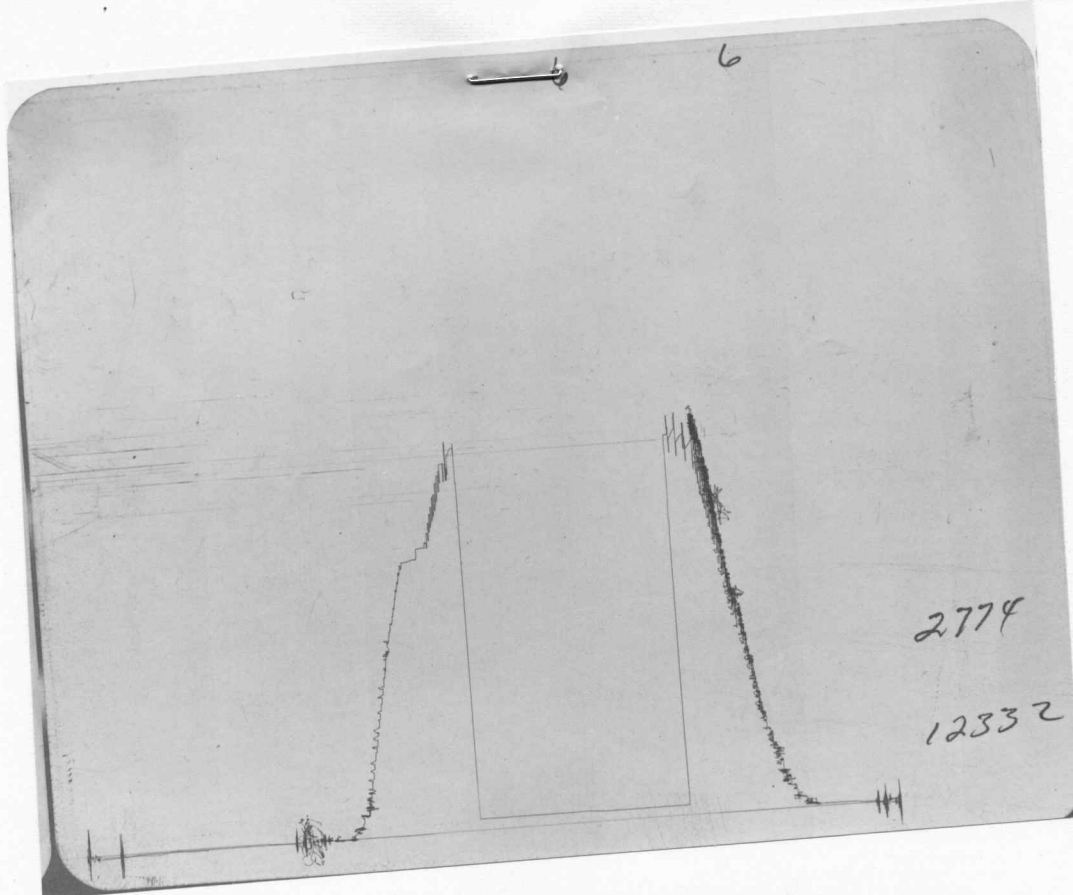
Formation Test No. 1 Total Depth 4060 Elev. _____
Interval Tested 4012 To 4060 Anchor Length 48'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H.X.H. Size Packer 6 3/4
Mud Weight 9.7 Viscosity 65 Water Loss 6 c.c. Bottom Hole Temp. 108 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 12332
Length of Drill Collar 90 I. D. 2.25 Length Flexweight 660 I. D. 2.76

RECOVERY

WEAK BLOW FOR 5 MINUTES, THEN VERY WEAK INTERMITTENT BLOW
FOR REMAINDER OF THE TEST.

15 FEET OF MUD.

Lease and Well No. STOPPEL # 1 27 18S 24W C/NW/NE Formation Test No. 1



Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 45 min: 2nd Flow hr. 30 min: Shut-in Final hr. 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2169</u>	<u>2197</u>
(B) Initial 1st Flow Pressure	<u>68</u>	<u>52</u>
(C) Final 1st Flow Pressure	<u>68</u>	<u>52</u>
(D) Initial Shut-in Pressure	<u>68</u>	<u>56</u>
(E) Initial 2nd Flow Pressure	<u>68</u>	<u>56</u>
(F) Final 2nd Flow Pressure	<u>68</u>	<u>56</u>
(G) Final Shut-in Pressure	<u>68</u>	<u>56</u>
(H) Final Hydrostatic Pressure	<u>2148</u>	<u>2180</u>

12332

DATE 1-10-73SEC. 27 TWN 18 RG 24LEGAL DESCRIPTION C NW NE,**MILLER**TICKET N^o 12332**TESTING COMPANY**

P. O. BOX 547 PHONE (316) 793-3370

TEST NO. #1

GREAT BEND, KANSAS

COMPANY Thunderbird Drilling Inc.ADDRESS Box 18427 Wichita, KansasLEASE Stoppel WELL NO. 1 COUNTY Ness STATE KansasINVOICES SENT TO: STRATA Drilling Inc. Box 355 Gr. BendDST COPIES SENT TO: Thunderbird Wichita, Kansas.

GENERAL INFORMATION

TOOL JT. 4 1/2 XH. FTH HOLE SIZE 7 7/8 PACKER O.D. 6 3/4
 ELEV. _____ TOTAL DEPTH 4060'
 TESTED FROM 4012 TO 4060
 ANCHOR LENGTH BELOW 48' BETWEEN _____
 TOOL OPEN 1ST FLOW 9:33 A.M. P.M. _____
 TOOL CLOSED INITIAL SHUT-IN 10:03 A.M. P.M. _____
 TOOL OPEN 2ND FLOW 10:48 A.M. P.M. _____
 TOOL CLOSED FINAL SHUT-IN 11:18 A.M. P.M. _____
 MUD WT. 9.7 VISCOSITY 65 W.L. 6 C.C. _____
 SP. GRAVITY OIL _____ BOTTOM HOLE TEMPERATURE 108°
 LENGTH DRILL COLLAR 90' I.D. 2.25
 LENGTH WEIGHT PIPE 660' I.D. 2.76
 SUCCESSFUL TEST NO. #1 MISRUN NO. _____
 CHOKES: TOP 1/2" BOTTOM 1/2"

PRESSURE DATA & TIME

	FIELD READINGS	CORRECTED READINGS
INITIAL HYDROSTATIC	<u>2169</u>	<u>2197</u>
INITIAL 1ST FLOW	<u>68</u>	<u>52</u>
FINAL 1ST FLOW	<u>68</u>	<u>52</u>
INITIAL SHUT-IN	<u>68</u>	<u>56</u>
INITIAL 2ND FLOW	<u>68</u>	<u>56</u>
FINAL 2ND FLOW	<u>68</u>	<u>56</u>
FINAL SHUT-IN	<u>68</u>	<u>56</u>
FINAL HYDROSTATIC	<u>2148</u>	<u>2180</u>
TOOL OPEN: 1ST FLOW		HR. <u>30</u> MIN.
INITIAL SHUT-IN		HR. <u>45</u> MIN.
2ND FLOW		HR. <u>30</u> MIN.
FINAL SHUT-IN		HR. <u>45</u> MIN.
TOP RECORDER NO. <u>2774</u>		BOTTOM RECORDER NO. <u>#1089</u>

TYPE BLOW Weak 5 min Then very weak Intermittent for remainder of Test.RECOVERY: 15' OF Mud.EXTRA EQUIPMENT NoneAPPROVED BY: George A. McDanielTESTER: Marion TruesellFORMATION TESTED Marmaton

OPERATOR TIME: _____

MILLER TESTING COMPANY

SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST WAS MADE.

CHARGES

TEST CHARGE	\$ <u>220.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>220.00</u>