

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. COBERLY C-1

County GOVE State KANSAS

Date MAY 24, 1973

Formation Test No. 1 Total Depth 3755 Elev. 2584 K.B.
 Interval Tested 3724 To 3755 Anchor Length 31'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
 Mud Weight 9.4 Viscosity 45 Water Loss 12.4 c.c. Bottom Hole Temp. 109 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 12088
 Length of Drill Collar I. D. Length Flexweight 692 I. D. 2.76

RECOVERY

FAIR BLOW THROUGHOUT BOTH FLOW PERIODS. (5" BELOW WATER)

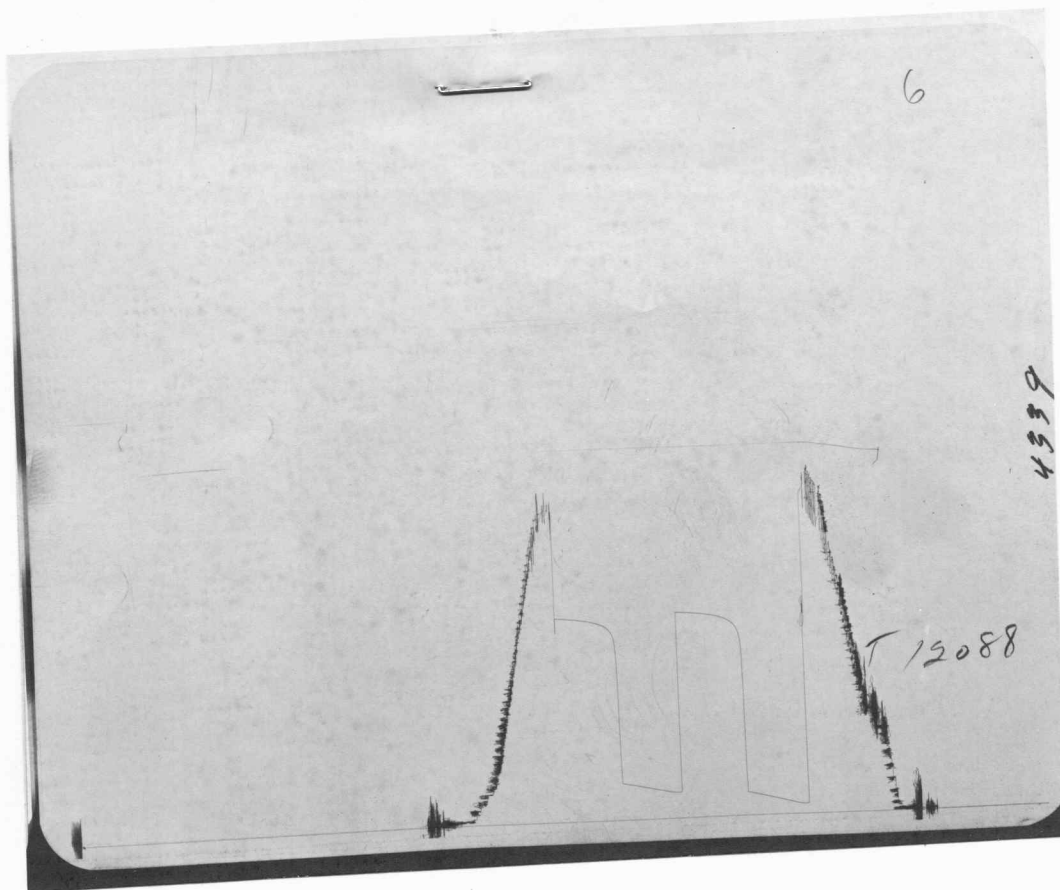
360 FEET OF MUDDY WATER.

Lease and Well No. COBERLY C-1

31-15S-28W

SW SW NE

Formation Test No. 1



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1881</u>	<u>1870</u>
(B) Initial 1st Flow Pressure	<u>58</u>	<u>57</u>
(C) Final 1st Flow Pressure	<u>138</u>	<u>138</u>
(D) Initial Shut-in Pressure	<u>1208</u>	<u>1208</u>
(E) Initial 2nd Flow Pressure	<u>161</u>	<u>161</u>
(F) Final 2nd Flow Pressure	<u>230</u>	<u>223</u>
(G) Final Shut-in Pressure	<u>1197</u>	<u>1197</u>
(H) Final Hydrostatic Pressure	<u>1859</u>	<u>1815</u>

12088

DATE 5-24-73SEC. 31 TWN 15S RG 28WLEGAL DESCRIPTION SW1SW1NE**MILLER**TICKET N^o 12088

TESTING COMPANY

TEST NO. 1

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

GREAT BEND, KANSAS

COMPANY Thunderbird Drilling Co.ADDRESS Box 18407 - Wichita, Kans.LEASE Coberly WELL NO. C-1 COUNTY Gove STATE Kans.INVOICES SENT TO: SameDST COPIES SENT TO: Same

GENERAL INFORMATION

TOOL JT. 4 1/2 FH HOLE SIZE 7 7/8 PACKER O.D. 6 3/4ELEV. 2584 KB TOTAL DEPTH 3755TESTED FROM 3724 TO 3755ANCHOR LENGTH BELOW 31 FT. BETWEENTOOL OPEN 1ST FLOW A.M. 12:15 P.M.TOOL CLOSED INITIAL SHUT-IN A.M. 1:00 P.M.TOOL OPEN 2ND FLOW A.M. 1:45 P.M.TOOL CLOSED FINAL SHUT-IN A.M. 2:30 P.M.MUD WT. 9.4 VISCOSITY 45 W.L. 12.4 C.C. 0SP. GRAVITY OIL BOTTOM HOLE TEMPERATURE 109LENGTH DRILL COLLAR I.D. ✓LENGTH WEIGHT PIPE 692 FT. I.D. 2.76SUCCESSFUL TEST NO. 1 MISRUN NO.CHOKES: TOP 1/2" BOTTOM 1/2"

PRESSURE DATA & TIME

FIELD READINGS

CORRECTED READINGS

INITIAL HYDROSTATIC 1881 1870INITIAL 1ST FLOW 58 57FINAL 1ST FLOW 138 138INITIAL SHUT-IN 1208 1208INITIAL 2ND FLOW 161 161FINAL 2ND FLOW 230 223FINAL SHUT-IN 1197 1197FINAL HYDROSTATIC 1859 1815TOOL OPEN: 1ST FLOW HR. 45 MIN.INITIAL SHUT-IN HR. 45 MIN.2ND FLOW HR. 45 MIN.FINAL SHUT-IN HR. 45 MIN.TOP RECORDER NO. 4339 BOTTOM RECORDER NO. 1134TYPE BLOW Fair Blow Throughout Both Flow Periods.
(5" Below water)RECOVERY: 360 FT. Muddy WaterEXTRA EQUIPMENT ✓APPROVED BY: Stanley Co.TESTER: Wm. LuskFORMATION TESTED R.C.OPERATOR TIME: 15

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 \$ 220.00

EXTRA PACKERS \$

JARS \$

SAFETY JOINT \$

HOOK WALL \$

MISRUN CHARGE \$

STAND-BY CHARGE \$

DST EVALUATION \$

TOTAL \$ 220.00

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. COBERLY C-1

County GOVE State KANSAS

Date MAY 25, 1973

Formation Test No. 2 Total Depth 3845 Elev. 2584 K.B.
Interval Tested 3811 To 3845 Anchor Length 34'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 8.8 Viscosity 52 Water Loss 12 c.c. Bottom Hole Temp. 116 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 12089
Length of Drill Collar I. D. Length Flexweight 692 I. D. 2.76

RECOVERY

STRONG BLOW THROUGHOUT FLOW PERIODS. (BOTTOM OF BUCKET)

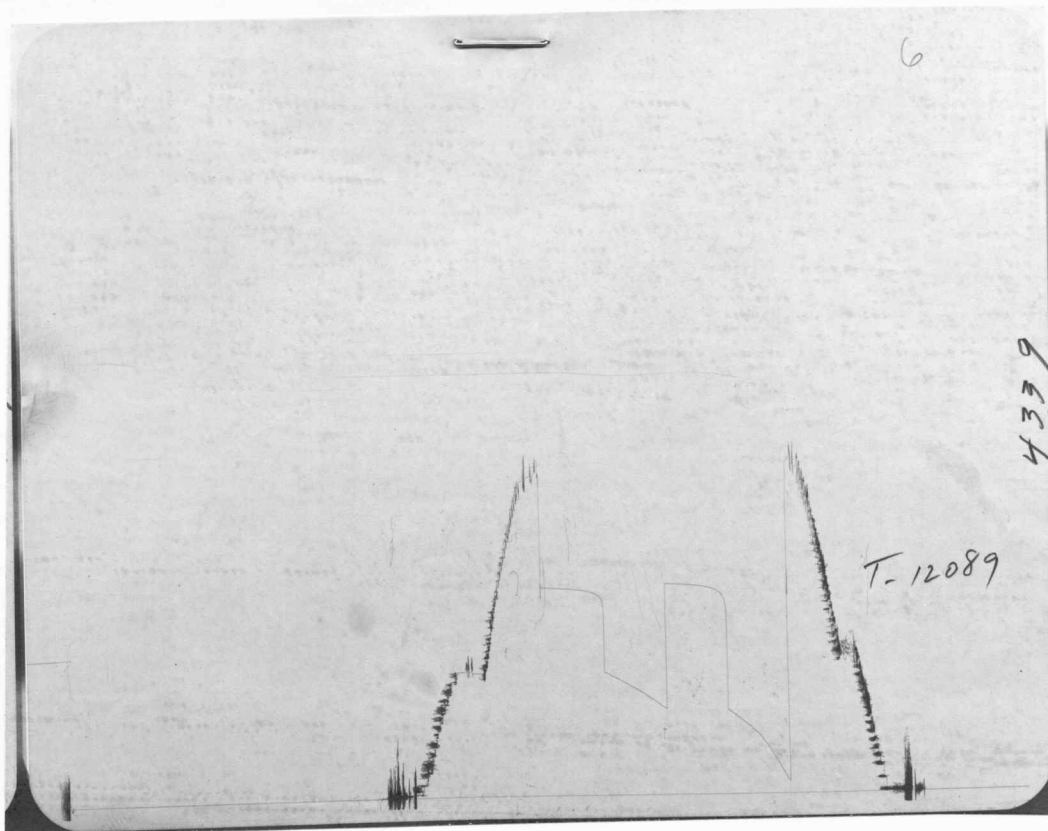
1665 FEET OF WATER.

Lease and Well No. COBERLY C-1

31-15S-28W

SW SW NE

Formation Test No. 2



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2013</u>	<u>1914</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>80</u>
(C) Final 1st Flow Pressure	<u>507</u>	<u>507</u>
(D) Initial Shut-in Pressure	<u>1219</u>	<u>1230</u>
(E) Initial 2nd Flow Pressure	<u>507</u>	<u>518</u>
(F) Final 2nd Flow Pressure	<u>719</u>	<u>741</u>
(G) Final Shut-in Pressure	<u>1219</u>	<u>1228</u>
(H) Final Hydrostatic Pressure	<u>1991</u>	<u>1870</u>

12089

DATE 5-25-73SEC. 31 TWN 15S RG 28WLEGAL DESCRIPTION SW/SW/NE **TESTING COMPANY**

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

GREAT BEND, KANSAS

TICKET No 12089

TEST NO. 2COMPANY Thunderbird Drilling Co.ADDRESS Box 18407 - Wichita, Kans.LEASE Cokerly WELL NO. C-1 COUNTY Gove STATE Kans.INVOICES SENT TO: SameDST COPIES SENT TO: Same

GENERAL INFORMATION

TOOL JT. 4 1/2 FT HOLE SIZE 7 7/8 PACKER O.D. 6 3/4ELEV. 2584 LB TOTAL DEPTH 3845TESTED FROM 3811 TO 3845ANCHOR LENGTH BELOW 34 FT. BETWEENTOOL OPEN 1ST FLOW A.M. 2:45 P.M.TOOL CLOSED INITIAL SHUT-IN A.M. 3:30 P.M.TOOL OPEN 2ND FLOW A.M. 4:15 P.M.TOOL CLOSED FINAL SHUT-IN A.M. 5:00 P.M.MUD WT. 8.8 VISCOSITY 52 W.L. 12.0 C.C.SP. GRAVITY OIL BOTTOM HOLE TEMPERATURE 116LENGTH DRILL COLLAR ✓ I.D. ✓LENGTH WEIGHT PIPE 692 FT. I.D. 2.76SUCCESSFUL TEST NO. 2 MISRUN NO.CHOKES: TOP 12" BOTTOM 12"

PRESSURE DATA & TIME

FIELD READINGS

CORRECTED READINGS

INITIAL HYDROSTATIC 2013 1914INITIAL 1ST FLOW 69 80FINAL 1ST FLOW 507 507INITIAL SHUT-IN 1219 1230INITIAL 2ND FLOW 507 518FINAL 2ND FLOW 719 741FINAL SHUT-IN 1219 1228FINAL HYDROSTATIC 1991 1870TOOL OPEN: 1ST FLOW HR. 45 MIN.INITIAL SHUT-IN HR. 45 MIN.2ND FLOW HR. 45 MIN.FINAL SHUT-IN HR. 45 MIN.TOP RECORDER NO. 4339 BOTTOM RECORDER NO. 1134TYPE BLOW Strong Blow Throughout Flow Periods.
(Bottom of Bucket)RECOVERY: 1665 FT. Water

EXTRA EQUIPMENT

APPROVED BY: Stanton CorpTESTER: Don LuskFORMATION TESTED K.C.OPERATOR TIME: 16

MILLER TESTING COMPANY

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CHARGES

TEST CHARGE \$ 220.00

EXTRA PACKERS \$

JARS \$

SAFETY JOINT \$

HOOK WALL \$

MISRUN CHARGE \$

STAND-BY CHARGE \$

DST EVALUATION \$

TOTAL \$ 220.00

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drilling Inc.

Lease and Well No. Coberly "C - 1"

County Gove State Kansas

Date 5-26-73

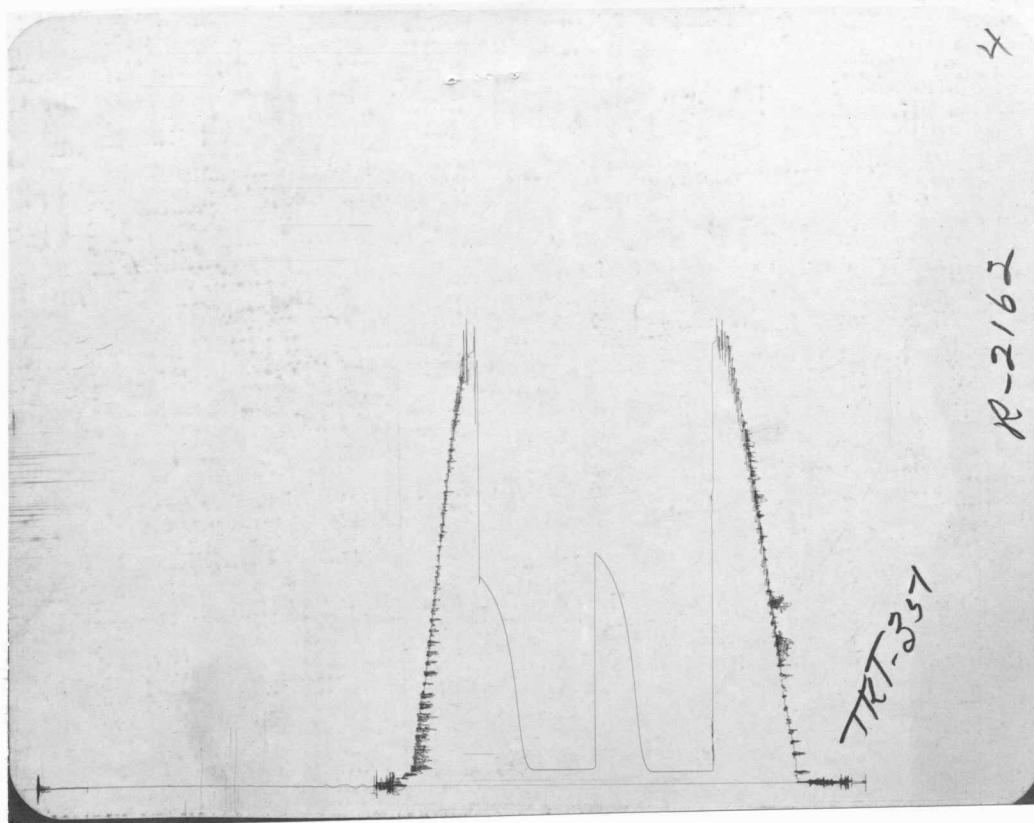
Formation Test No. 3 Total Depth 3935' Elev. _____
 Interval Tested 3880' To 3935' Anchor Length 55'
 Size Hole 7 7/8" Size Drill Pipe 4 1/2" XH FH Size Packer 6 3/4"
 Mud Weight 8.5 Viscosity 48 Water Loss 14 c.c. Bottom Hole Temp. 118 °F
 Chokes: Top 1/2" Bottom 1/2" Ticket No. 351

RECOVERY

Blow: Weak intermittent for 45 mins.

Recovery: 35' of mud

Lease and Well No. COBERLY "C - 1" Sec 31 Twn 15-S Rg 28-W SW SW NE Formation Test No. 3



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1996</u>	<u>1979</u>
(B) Initial 1st Flow Pressure	<u>52</u>	<u>55</u>
(C) Final 1st Flow Pressure	<u>61</u>	<u>57</u>
(D) Initial Shut-in Pressure	<u>1038</u>	<u>1036</u>
(E) Initial 2nd Flow Pressure	<u>69</u>	<u>73</u>
(F) Final 2nd Flow Pressure	<u>69</u>	<u>73</u>
(G) Final Shut-in Pressure	<u>934</u>	<u>934</u>
(H) Final Hydrostatic Pressure	<u>1961</u>	<u>1952</u>

Ticket # 351

DATE 5-26-73

THUNDERBIRD DRILLING, INC.

SEC. 31 TWN 15-S RG 28-W

TESTING DIVISION

TICKET N^o 351LEGAL DESCRIPTION SW SW NE

BOX 18407 PHONE 316 685-1441

WICHITA, KANSAS 67218

TEST NO. 3

COMPANY Thunderbird Drllg. Inc.
ADDRESS Box 18407; Wichita, Ks. 67218
LEASE Coberly C WELL NO. 1 COUNTY Gove, STATE Ks.
INVOICES SENT TO: Same
DST COPIES SENT TO: "

GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>4 1/2" X.H. F.H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>1996</u>	<u>1979</u>
ELEV. _____	TOTAL DEPTH <u>3935'</u>	INITIAL 1ST FLOW <u>52</u>	<u>53'</u>
TESTED FROM <u>3880'</u>	TO <u>3935'</u>	FINAL 1ST FLOW <u>61</u>	<u>57</u>
ANCHOR LENGTH BELOW <u>53'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>1038</u>	<u>1036</u>
TOOL OPEN 1ST FLOW _____	A.M. <u>12:40</u> P.M. _____	INITIAL 2ND FLOW <u>69</u>	<u>73</u>
TOOL CLOSED INITIAL SHUT-IN _____	A.M. <u>1:25</u> P.M. _____	FINAL 2ND FLOW <u>69</u>	<u>73</u>
TOOL OPEN 2ND FLOW _____	A.M. <u>2:10</u> P.M. _____	FINAL SHUT-IN <u>934</u>	<u>934</u>
TOOL CLOSED FINAL SHUT-IN _____	A.M. <u>2:55</u> P.M. _____	FINAL HYDROSTATIC <u>1961</u>	<u>1952</u>
MUD WT <u>8.5</u>	VISCOSITY <u>48</u> W.L. <u>14</u> C.C. _____	TOOL OPEN: 1ST FLOW _____	HR. <u>45</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>118°</u>	INITIAL SHUT-IN _____	HR. <u>45</u> MIN.
LENGTH DRILL COLLAR _____	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>45</u> MIN.
LENGTH WEIGHT PIPE <u>660'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN _____	HR. <u>45</u> MIN.
SUCCESSFUL TEST NO. <u>3</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>4333</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Weak intermittent for 45 mins.RECOVERY: 35' of mud

EXTRA EQUIPMENT None
APPROVED BY: Stanley Cox THUNDERBIRD DRILLING, INC.
TESTER: Ed Crank
FORMATION TESTED K.C.
OPERATOR TIME: _____

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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>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drilling Inc.

Lease and Well No. Coberly "C - 1"

County Gove State Kansas Date 5-27-73

Formation Test No. 4 Total Depth 3993' Elev. _____
 Interval Tested 3939' To 3993' Anchor Length 54'
 Size Hole 7 7/8" Size Drill Pipe 4 1/2" XH FH Size Packer 6 3/4"
 Mud Weight 9.1 Viscosity 51 Water Loss 10 c.c. Bottom Hole Temp. 118 ° F
 Chokes: Top 1/2" Bottom 1/2" Ticket No. 352

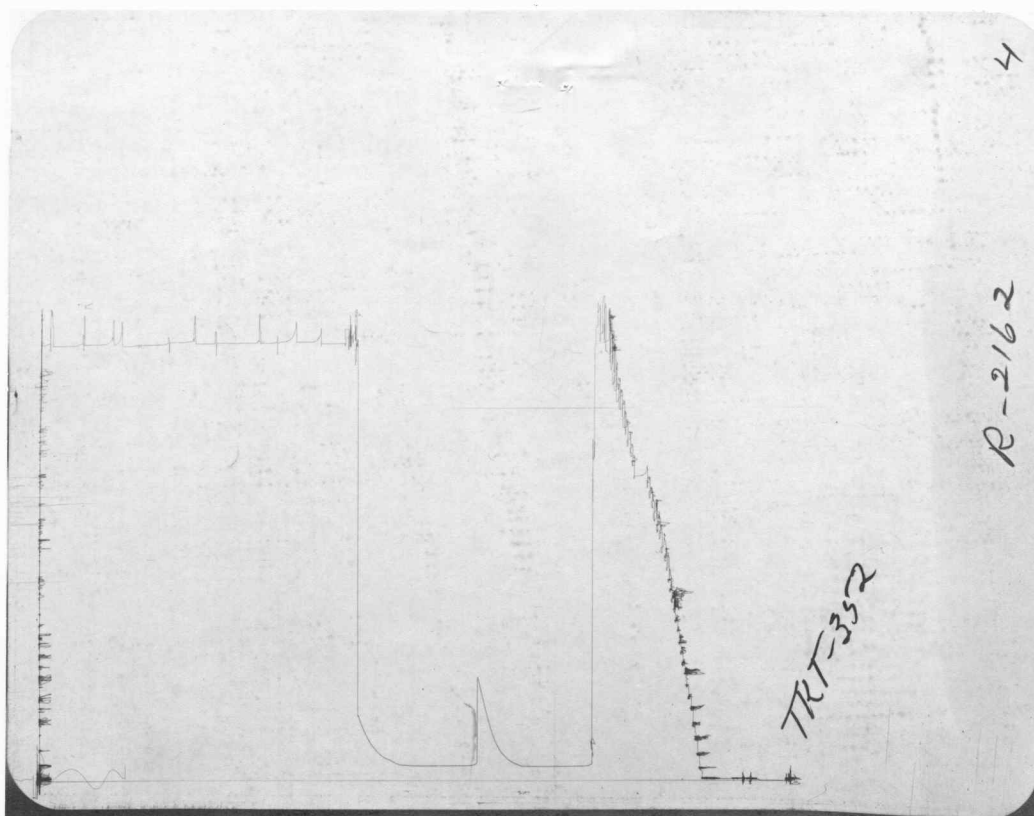
RECOVERY

Blow: Weak blow for 30 mins.

Recovery: 20' of mud

(Waited 12 hrs. for wind to die down before coming out w/tool.)

Lease and Well No. COBERLY "C - 1" Sec 31 Twn 15-S Rg 38-W SW SW NE
 Formation Test No. 4



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2067</u>	<u>2058</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>70</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>73</u>
(D) Initial Shut-in Pressure	<u>476</u>	<u>467</u>
(E) Initial 2nd Flow Pressure	<u>78</u>	<u>73</u>
(F) Final 2nd Flow Pressure	<u>78</u>	<u>73</u>
(G) Final Shut-in Pressure	<u>294</u>	<u>294</u>
(H) Final Hydrostatic Pressure	<u>2049</u>	<u>2040</u>

Ticket # 352

DATE 5-27-73

THUNDERBIRD DRILLING, INC.

TESTING DIVISION

TICKET NO

352

SEC. 31 TWN 15-S RG 38-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SW SW NE

WICHITA, KANSAS 67218

TEST NO. 4COMPANY Thunderbird Drilling, Inc.ADDRESS Box 18407, Wichita, Ks. 67218LEASE Coberly C WELL NO. 1 COUNTY Gove, STATE Ks.INVOICES SENT TO: JameDST COPIES SENT TO: "

4 1/2" X 4" GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>F.H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>2067</u>	<u>2058</u>
ELEV. _____	TOTAL DEPTH <u>3993'</u>	INITIAL 1ST FLOW <u>69</u>	<u>70</u>
TESTED FROM <u>3939'</u>	TO <u>3993'</u>	FINAL 1ST FLOW <u>69</u>	<u>73</u>
ANCHOR LENGTH BELOW <u>54'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>476</u>	<u>467</u>
TOOL OPEN 1ST FLOW <u>7:30</u>	A.M. _____ P.M. _____	INITIAL 2ND FLOW <u>78</u>	<u>73</u>
TOOL CLOSED INITIAL SHUT-IN <u>8:15</u>	A.M. _____ P.M. _____	FINAL 2ND FLOW <u>78</u>	<u>73</u>
TOOL OPEN 2ND FLOW <u>9:00</u>	A.M. _____ P.M. _____	FINAL SHUT-IN <u>294</u>	<u>294</u>
TOOL CLOSED FINAL SHUT-IN <u>9:45</u>	A.M. _____ P.M. _____	FINAL HYDROSTATIC <u>2049</u>	<u>2040</u>
MUD WT. <u>9.1</u>	VISCOSITY <u>37</u> W.L. <u>10</u> C.C. _____	TOOL OPEN: 1ST FLOW _____	HR. <u>45</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>118°</u>	INITIAL SHUT-IN _____	HR. <u>45</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>45</u> MIN.
LENGTH WEIGHT PIPE <u>660'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN _____	HR. <u>45</u> MIN.
SUCCESSFUL TEST NO. <u>4</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>4332</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Weak blow for 30 mins.RECOVERY: 20' of mud

{ Waited 12 hrs. for wind to die down before }
{ coming out w/ tool }

EXTRA EQUIPMENT NoneAPPROVED BY: Stanley Co. THUNDERBIRD DRILLING, INC.TESTER: Ed CookFORMATION TESTED K.C.

OPERATOR TIME: _____

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>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drilling Inc.

Lease and Well No. Coberly "C - 1"

County Gove

State Kansas

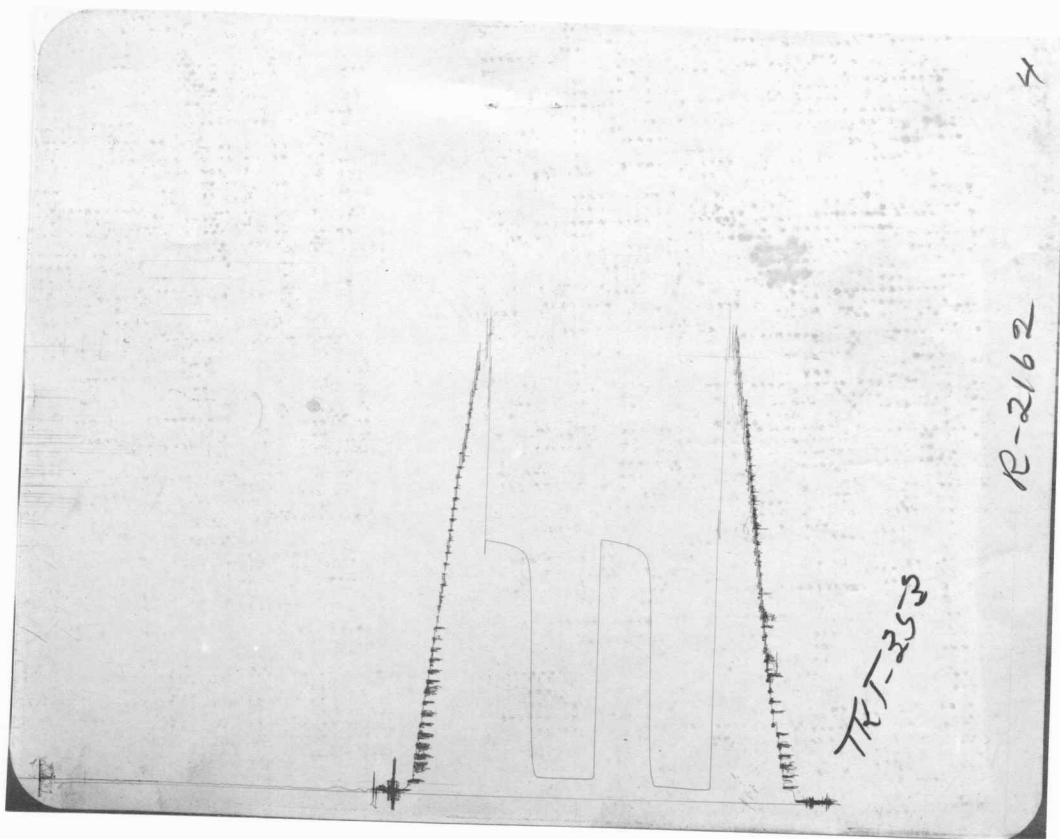
Date 5-28-73

Formation Test No. 5 Total Depth 4020' Elev. _____
 Interval Tested 3987' To 4020' Anchor Length 33'
 Size Hole 7 7/8" Size Drill Pipe 4 1/2" XH FH Size Packer 6 3/4"
 Mud Weight 9.3 Viscosity 55 Water Loss 15 c.c. Bottom Hole Temp. 118 °F
 Chokes: Top 1/2" Bottom 1/2" Ticket No. 353

RECOVERY

Blow: Weak blow thru-out test.
 Recovery: 130' of slightly oil cut muddy water.

Lease and Well No. COBERLY "C - 1" Sec 31 Twn 15-S Rg 28-W SW SW NE Formation Test No. 5



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2084</u>	<u>2093</u>
(B) Initial 1st Flow Pressure	<u>61</u>	<u>55</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>69</u>
(D) Initial Shut-in Pressure	<u>1159</u>	<u>1168</u>
(E) Initial 2nd Flow Pressure	<u>87</u>	<u>92</u>
(F) Final 2nd Flow Pressure	<u>104</u>	<u>95</u>
(G) Final Shut-in Pressure	<u>1142</u>	<u>1151</u>
(H) Final Hydrostatic Pressure	<u>2067</u>	<u>2084</u>

Ticket # 353

DATE 5-28-73

THUNDERBIRD DRILLING, INC.

TESTING DIVISION

TICKET NO. **353**SEC. 31 TWN 15-S RG 28-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SW SW NE

WICHITA, KANSAS 67218

TEST NO. 5COMPANY Thunderbird Drilling, Inc.ADDRESS Box 18407; Wichita, Ks. 67218LEASE Coberly C. WELL NO. 1 COUNTY Gove, STATE Ks.INVOICES SENT TO: SameDST COPIES SENT TO: "

4 1/2" X. H. GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>5 H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>2084</u>	<u>2092</u>
ELEV. _____	TOTAL DEPTH <u>4020'</u>	INITIAL 1ST FLOW <u>61</u>	<u>53</u>
TESTED FROM <u>3987'</u>	TO <u>4020'</u>	FINAL 1ST FLOW <u>69</u>	<u>69</u>
ANCHOR LENGTH BELOW <u>33'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>1159</u>	<u>1168</u>
TOOL OPEN 1ST FLOW <u>10:00</u>	A.M. _____ P.M. _____	INITIAL 2ND FLOW <u>87</u>	<u>92</u>
TOOL CLOSED INITIAL SHUT-IN <u>10:45</u>	A.M. _____ P.M. _____	FINAL 2ND FLOW <u>104</u>	<u>95</u>
TOOL OPEN 2ND FLOW <u>11:30</u>	A.M. _____ P.M. _____	FINAL SHUT-IN <u>1142</u>	<u>1151</u>
TOOL CLOSED FINAL SHUT-IN _____	A.M. <u>12:15</u> P.M. _____	FINAL HYDROSTATIC <u>2067</u>	<u>2084</u>
MUD WT. <u>9.3</u>	VISCOSITY <u>53</u> W.L. <u>15</u> C.C. _____	TOOL OPEN: 1ST FLOW _____	HR. <u>45</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>118°</u>	INITIAL SHUT-IN _____	HR. <u>45</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>45</u> MIN.
LENGTH WEIGHT PIPE <u>660'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN _____	HR. <u>45</u> MIN.
SUCCESSFUL TEST NO. <u>5</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>4333</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Weak blow thru-out test.RECOVERY: 130' of slightly Oil Cut muddy waterEXTRA EQUIPMENT NoneAPPROVED BY: Stanley Cox THUNDERBIRD DRILLING, INC.TESTER: Ed CookFORMATION TESTED K.C.

OPERATOR TIME: _____

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>120.00</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>220.00</u>

THUNDERBIRD DRLG., INC.

TESTING DIVISION

Box 18407

WICHITA, KANSAS

Company Thunderbird Drilling Inc.

Lease and Well No. Coberly "C - 1"

County Gove

State Kansas

Date 5-29-73

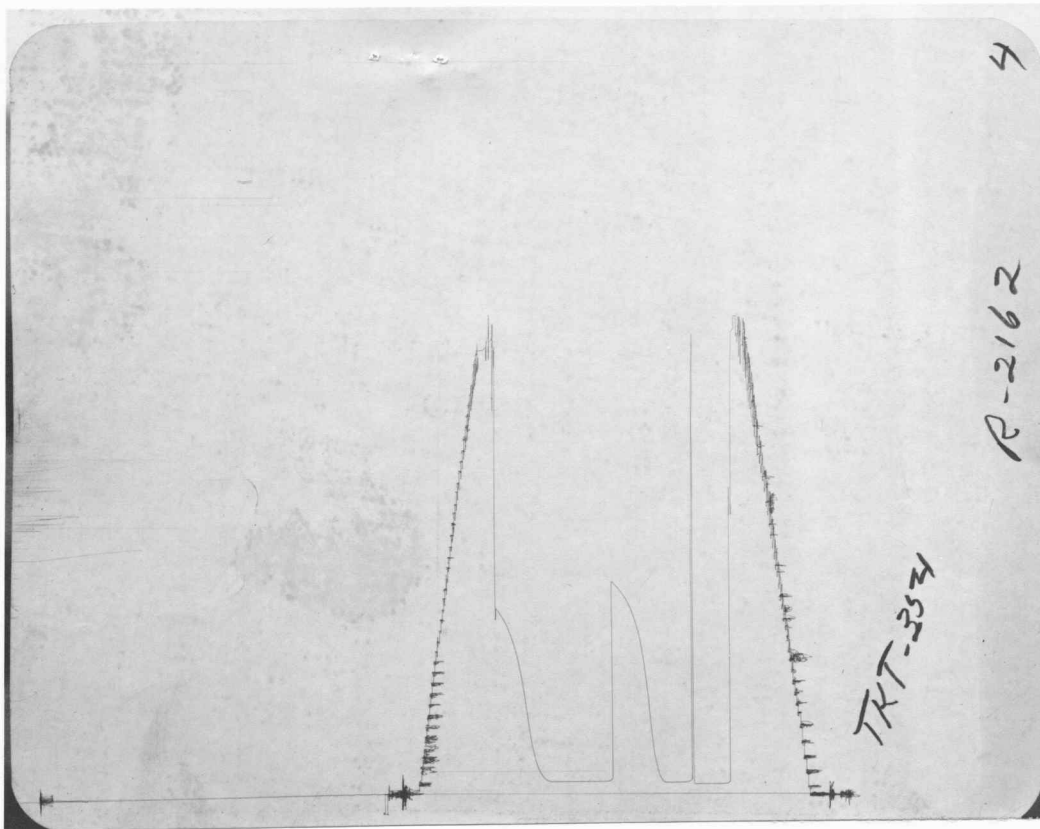
Formation Test No. 6 Total Depth 4060' Elev. _____
 Interval Tested 4021' To 4060' Anchor Length 39'
 Size Hole 7 7/8" Size Drill Pipe 4 1/2" XH FH Size Packer 6 3/4"
 Mud Weight 9.3 Viscosity 55 Water Loss 15 c.c. Bottom Hole Temp. 120 ° F
 Chokes: Top 1/2" Bottom 1/2" Ticket No. 354

RECOVERY

Blow: Weak for 5 mins. Flushed tool.

Recovery: 15' of mud w/free oil in top of tool.

Lease and Well No. COBERLY "C - 1" Sec 31 Twn 15-S Rg 28-W SW SW NE Formation Test No. 6



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2084</u>	<u>2084</u>
(B) Initial 1st Flow Pressure	<u>43</u>	<u>45</u>
(C) Final 1st Flow Pressure	<u>52</u>	<u>55</u>
(D) Initial Shut-in Pressure	<u>952</u>	<u>960</u>
(E) Initial 2nd Flow Pressure	<u>61</u>	<u>57</u>
(F) Final 2nd Flow Pressure	<u>61</u>	<u>59</u>
(G) Final Shut-in Pressure	<u>830</u>	<u>839</u>
(H) Final Hydrostatic Pressure	<u>2049</u>	<u>2067</u>

Ticket # 354

DATE 5-29-73

THUNDERBIRD DRILLING, INC.

TESTING DIVISION

TICKET N^o 354SEC. 31 TWN 15-S RG 28-W

BOX 18407 PHONE 316 685-1441

LEGAL DESCRIPTION SW SW NE

WICHITA, KANSAS 67218

TEST NO. 6COMPANY Thunderbird Drllg. Inc.ADDRESS Box 18407; Wichita, Ks. 67218LEASE Coberly C WELL NO. 1 COUNTY Gove, STATE Ks.INVOICES SENT TO: SameDST COPIES SENT TO: "

4 1/2" X. H. GENERAL INFORMATION		PRESSURE DATA & TIME	
		FIELD READINGS	CORRECTED READINGS
TOOL JT. <u>F.H.</u>	HOLE SIZE <u>7 7/8"</u> PACKER O.D. <u>6 3/4"</u>	INITIAL HYDROSTATIC <u>2084</u>	<u>2084</u>
ELEV. _____	TOTAL DEPTH <u>4060'</u>	INITIAL 1ST FLOW <u>43</u>	<u>45</u>
TESTED FROM <u>4021'</u>	TO <u>4060'</u>	FINAL 1ST FLOW <u>52</u>	<u>55</u>
ANCHOR LENGTH BELOW <u>39'</u>	BETWEEN <u>✓</u>	INITIAL SHUT-IN <u>952</u>	<u>960</u>
TOOL OPEN 1ST FLOW <u>12:40 A.M.</u>	P.M. _____	INITIAL 2ND FLOW <u>61</u>	<u>57</u>
TOOL CLOSED INITIAL SHUT-IN <u>1:25 A.M.</u>	P.M. _____	FINAL 2ND FLOW <u>61</u>	<u>59</u>
TOOL OPEN 2ND FLOW <u>2:10 A.M.</u>	P.M. _____	FINAL SHUT-IN <u>830</u>	<u>839</u>
TOOL CLOSED FINAL SHUT-IN <u>2:53 A.M.</u>	P.M. _____	FINAL HYDROSTATIC <u>2049</u>	<u>2067</u>
MUD WT. <u>9.3</u>	VISCOSITY <u>53</u> W.L. <u>15</u> C.C. _____	TOOL OPEN: 1ST FLOW _____	HR. <u>45</u> MIN.
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>1200</u>	INITIAL SHUT-IN _____	HR. <u>45</u> MIN.
LENGTH DRILL COLLAR <u>✓</u>	I.D. <u>✓</u>	2ND FLOW _____	HR. <u>45</u> MIN.
LENGTH WEIGHT PIPE <u>660'</u>	I.D. <u>2.76</u>	FINAL SHUT-IN _____	HR. <u>45</u> MIN.
SUCCESSFUL TEST NO. <u>6</u>	MISRUN NO. <u>✓</u>	TOP RECORDER NO. <u>2162</u>	BOTTOM RECORDER NO. <u>4333</u>
CHOKES: TOP <u>1/2"</u>	BOTTOM <u>1/2"</u>		

TYPE BLOW Weak for 5 mins. Flushed tool.RECOVERY: 15' of mud w/ free oil in top of tool

EXTRA EQUIPMENT None

APPROVED BY: Stanton Corp. THUNDERBIRD DRILLING, INC.

TESTER: Ed Cook

FORMATION TESTED H.C.

OPERATOR TIME: _____

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CHARGES

TEST CHARGE	\$ <u>220</u>
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ _____
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
TOTAL	\$ <u>220</u>