

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. STUM "B" #1

County NESS

State KANSAS

Date NOVEMBER 30, 1971

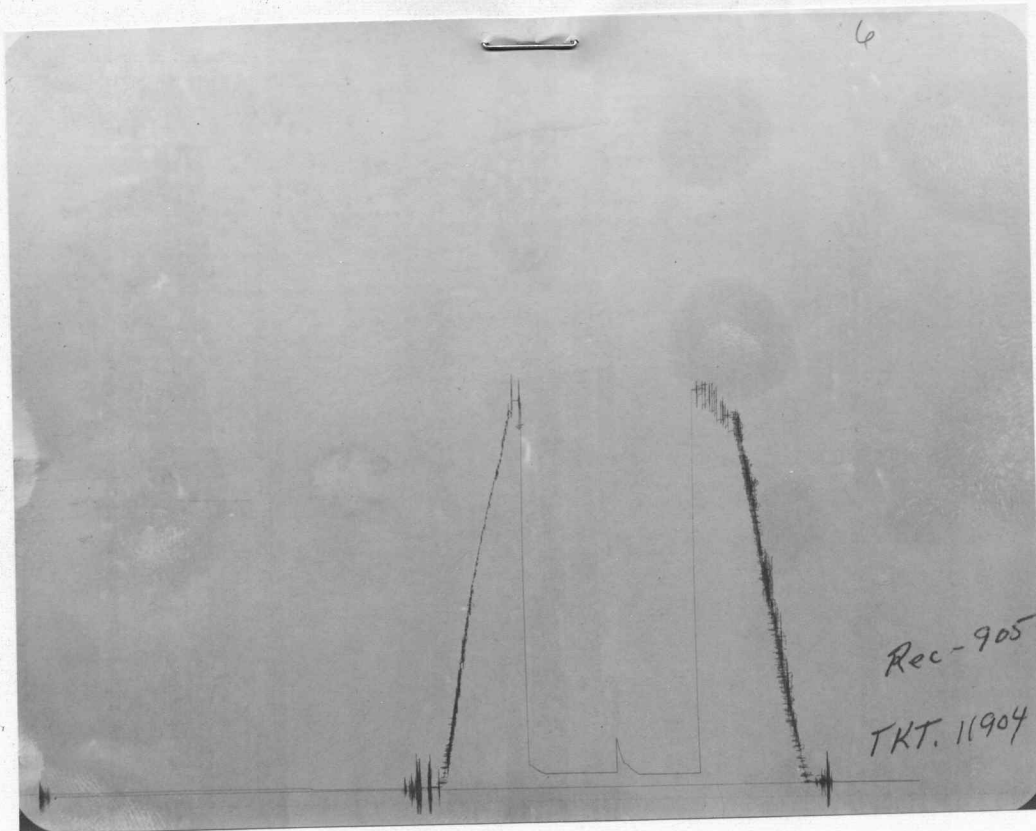
Formation Test No. 1 Total Depth 4336 Elev. _____
 Interval Tested 4300 To 4336 Anchor Length 36
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
 Mud Weight 10.1 Viscosity 44 Water Loss 8.6 c.c. Bottom Hole Temp. 114 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 11904
 Length of Drill Collar _____ I. D. _____ Length Flexweight 720 I. D. 2.76

RECOVERY

WEAK BLOW FOR 7 MINUTES.

20 FEET OF MUD WITH VERY FEW OIL SPECKS IN TOP OF TOOL.

Lease and Well No. STUM "B" #1 5-20S-23W C SW SE Formation Test No. 1



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2441</u>	<u>2460</u>
(B) Initial 1st Flow Pressure	<u>77</u>	<u>72</u>
(C) Final 1st Flow Pressure	<u>77</u>	<u>72</u>
(D) Initial Shut-in Pressure	<u>300</u>	<u>300</u>
(E) Initial 2nd Flow Pressure	<u>89</u>	<u>89</u>
(F) Final 2nd Flow Pressure	<u>89</u>	<u>89</u>
(G) Final Shut-in Pressure	<u>156</u>	<u>144</u>
(H) Final Hydrostatic Pressure	<u>2412</u>	<u>2424</u>

11904

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GREAT BEND, KANSAS

Company THUNDERBIRD DRILLING, INC.

Lease and Well No. STUM "B" #1

County NESS State KANSAS

Date DECEMBER 1, 1971

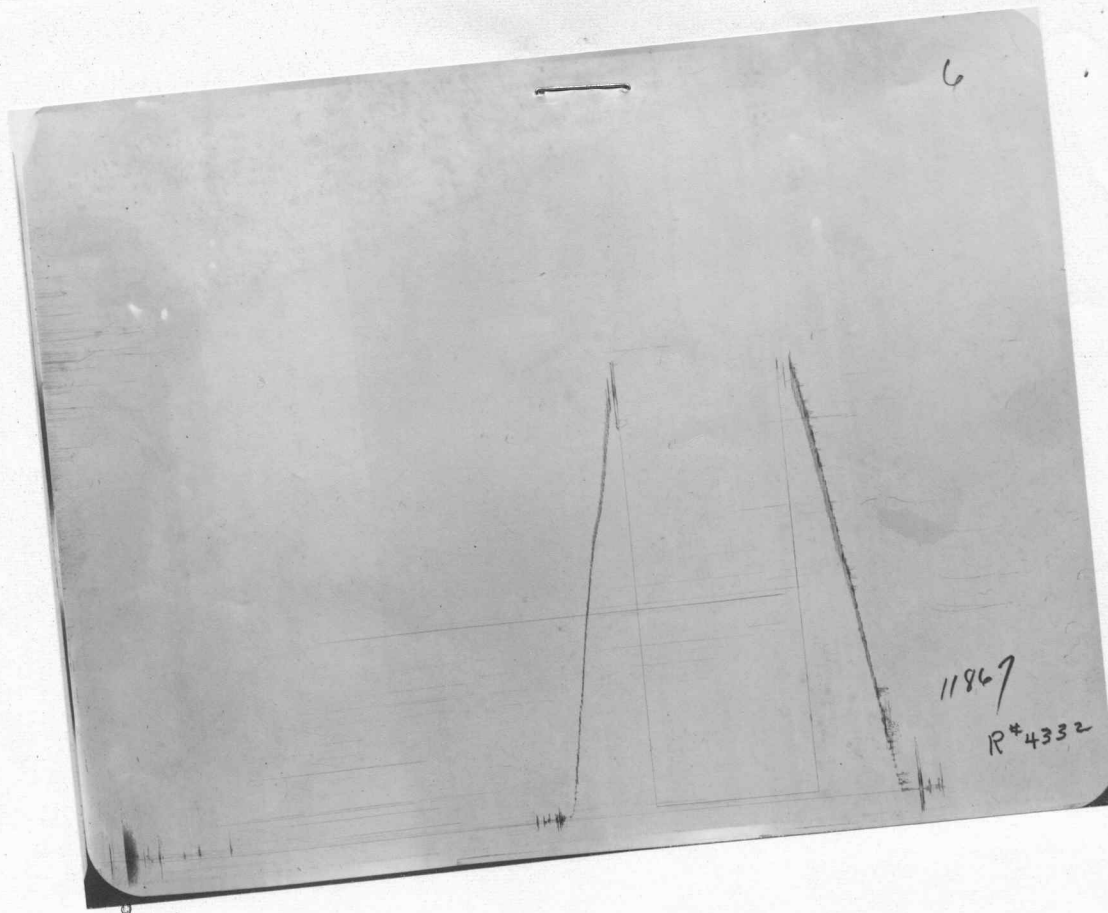
Formation Test No. 2 Total Depth 4395 Elev. 2318 K.B.
Interval Tested 4377 To 4395 Anchor Length 18'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 10.1 Viscosity 44 Water Loss 8.6 c.c. Bottom Hole Temp. °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11867
Length of Drill Collar I. D. Length Flexweight 744 I. D. 2.76

RECOVERY

WEAK BLOW FOR 12 MINUTES, THEN DEAD.

5 FEET OF THIN MUD.

Lease and Well No. STUM "B" #1 5-205-23M C SW SE Formation Test No. 2



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2315</u>	<u>2357</u>
(B) Initial 1st Flow Pressure	<u>32</u>	<u>32</u>
(C) Final 1st Flow Pressure	<u>32</u>	<u>32</u>
(D) Initial Shut-in Pressure	<u>32</u>	<u>32</u>
(E) Initial 2nd Flow Pressure	<u>32</u>	<u>32</u>
(F) Final 2nd Flow Pressure	<u>32</u>	<u>32</u>
(G) Final Shut-in Pressure	<u>32</u>	<u>32</u>
(H) Final Hydrostatic Pressure	<u>2304</u>	<u>2347</u>

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Company THUNDERBIRD DRILLING, INC.

Lease and Well No. STUM "B" #1

County NESS State KANSAS

Date DECEMBER 2, 1971

Formation Test No. 3 Total Depth 4436 Elev. 2318 K.B.
Interval Tested 4422 To 4436 Anchor Length 14'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 10.1 Viscosity 44 Water Loss 8.6 c.c. Bottom Hole Temp. 108 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11868
Length of Drill Collar _____ I. D. _____ Length Flexweight 744 I. D. 2.76

RECOVERY

WEAK BLOW FOR 8 MINUTES.

10 FEET OF MUD WITH FEW OIL SPECKS.

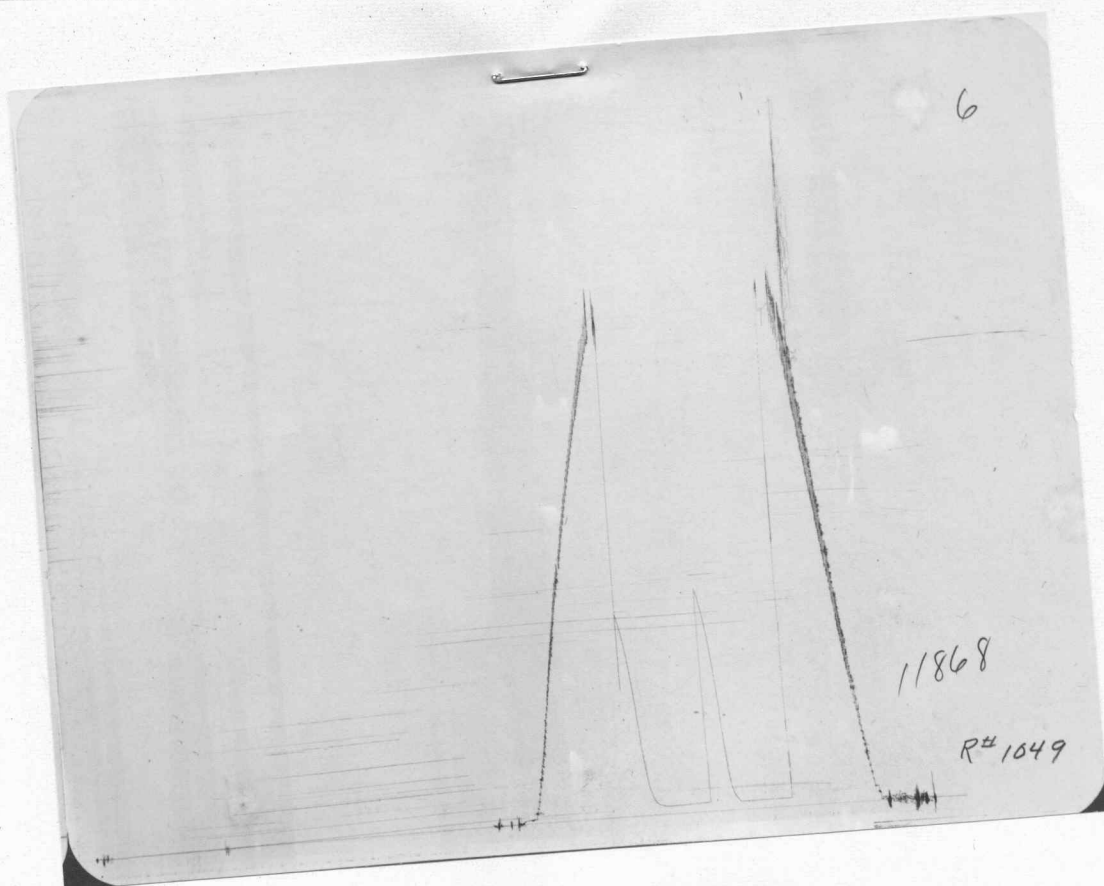
Lease and Well No.

STUM "B" #1

5-20S-23W

C SW SE

Formation Test No. 3



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2389</u>	<u>2400</u>
(B) Initial 1st Flow Pressure	<u>43</u>	<u>52</u>
(C) Final 1st Flow Pressure	<u>43</u>	<u>52</u>
(D) Initial Shut-in Pressure	<u>1051</u>	<u>1055</u>
(E) Initial 2nd Flow Pressure	<u>43</u>	<u>58</u>
(F) Final 2nd Flow Pressure	<u>43</u>	<u>58</u>
(G) Final Shut-in Pressure	<u>945</u>	<u>966</u>
(H) Final Hydrostatic Pressure	<u>2347</u>	<u>2379</u>

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Lease and Well No. STUM "B" #1

County NESS State KANSAS

Date DECEMBER 2, 1971

Formation Test No. 4 Total Depth 4441 Elev. 2318 K.B.
Interval Tested 4422 To 4441 Anchor Length 19'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 9.7 Viscosity 45 Water Loss 7.4 c.c. Bottom Hole Temp. 142 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11869
Length of Drill Collar _____ I. D. _____ Length Flexweight 744 I. D. 2.76

RECOVERY

WEAK BLOW FOR 15 MINUTES.

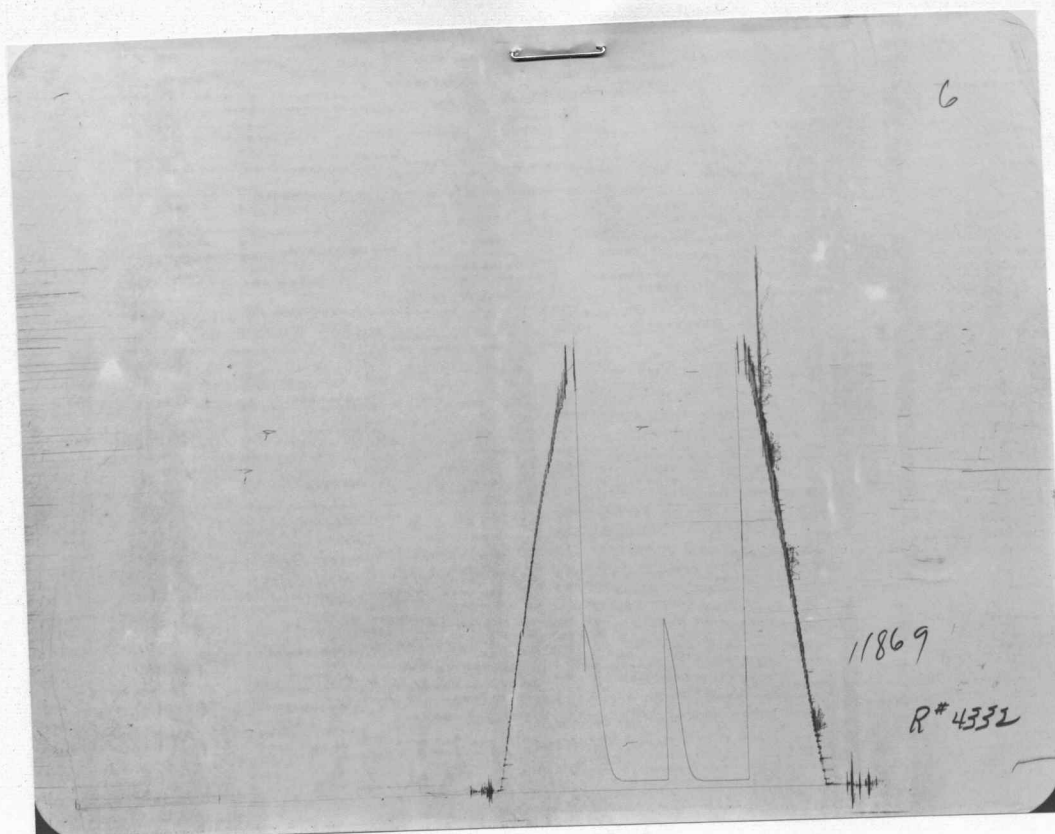
30 FEET OF MUD WITH FEW OIL SPECKS IN TOP OF TOOL.

Lease and Well No. STUM "B" #1

5-20S-23W

C SW SE

Formation Test No. 4



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2325</u>	<u>2410</u>
(B) Initial 1st Flow Pressure	<u>43</u>	<u>43</u>
(C) Final 1st Flow Pressure	<u>43</u>	<u>43</u>
(D) Initial Shut-in Pressure	<u>934</u>	<u>944</u>
(E) Initial 2nd Flow Pressure	<u>43</u>	<u>54</u>
(F) Final 2nd Flow Pressure	<u>43</u>	<u>54</u>
(G) Final Shut-in Pressure	<u>913</u>	<u>923</u>
(H) Final Hydrostatic Pressure	<u>2304</u>	<u>2357</u>

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Lease and Well No. STUM "B" #1

County NESS State KANSAS

Date DECEMBER 3, 1971

Formation Test No. 5 Total Depth 4446 Elev. 2318 K.B.
Interval Tested 4422 To 4446 Anchor Length 24'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4
Mud Weight 9.7 Viscosity 45 Water Loss 7.4 c.c. Bottom Hole Temp. 112 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 11870
Length of Drill Collar _____ I. D. _____ Length Flexweight 744 I. D. 2.76

RECOVERY

WEAK BLOW FOR 20 MINUTES.

20 FEET OF MUD WITH FEW OIL SPECKS IN TOP OF TOOL.

Lease and Well No.

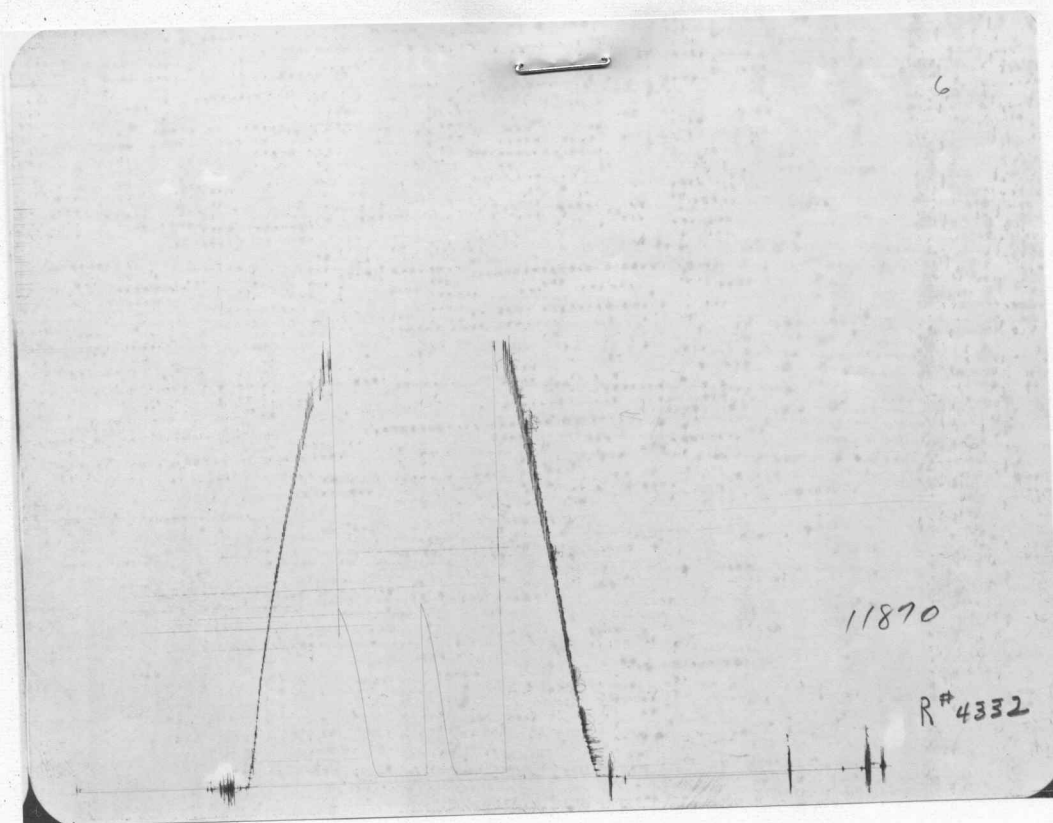
STUM "B" #1

5-20S-23W

C SW SE

Formation Test No.

5



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2304</u>	<u>2400</u>
(B) Initial 1st Flow Pressure	<u>22</u>	<u>34</u>
(C) Final 1st Flow Pressure	<u>22</u>	<u>34</u>
(D) Initial Shut-in Pressure	<u>966</u>	<u>991</u>
(E) Initial 2nd Flow Pressure	<u>22</u>	<u>34</u>
(F) Final 2nd Flow Pressure	<u>22</u>	<u>34</u>
(G) Final Shut-in Pressure	<u>966</u>	<u>976</u>
(H) Final Hydrostatic Pressure	<u>2282</u>	<u>2336</u>

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Lease and Well No. STUM "B" #1

County NESS State KANSAS

Date DECEMBER 3, 1971

Formation Test No. 6 Total Depth 4463 Elev. 2318 K.B.

Interval Tested 4439 To 4463 Anchor Length 24'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. Size Packer 6 3/4

Mud Weight 9.7 Viscosity 41 Water Loss 6 c.c. Bottom Hole Temp. 110 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 11871

Length of Drill Collar _____ I. D. _____ Length Flexweight 744 I. D. 2.76

RECOVERY

WEAK TO INTERMITTENT BLOW FOR 28 MINUTES.

20 FEET OF MUD.

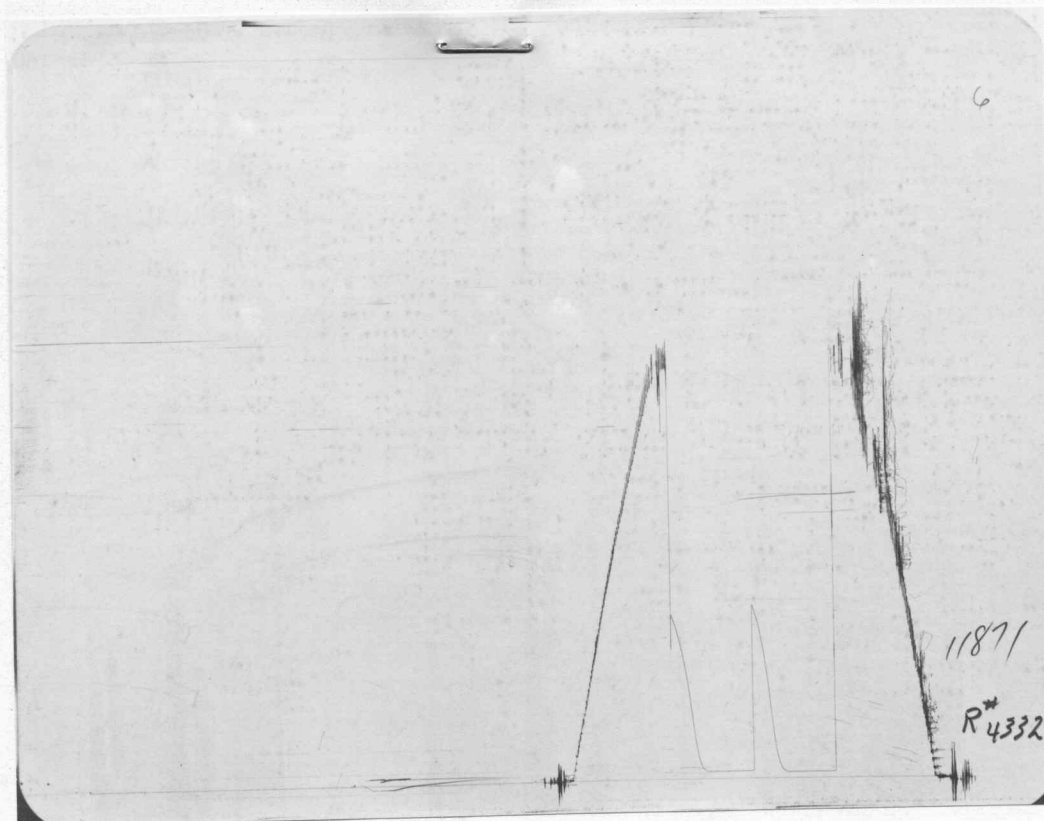
Lease and Well No.

STUM "B" #1

5-20S-23W

C SW SE

Formation Test No. 6



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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2326</u>	<u>2379</u>
(B) Initial 1st Flow Pressure	<u>32</u>	<u>32</u>
(C) Final 1st Flow Pressure	<u>32</u>	<u>34</u>
(D) Initial Shut-in Pressure	<u>966</u>	<u>966</u>
(E) Initial 2nd Flow Pressure	<u>32</u>	<u>43</u>
(F) Final 2nd Flow Pressure	<u>32</u>	<u>45</u>
(G) Final Shut-in Pressure	<u>902</u>	<u>923</u>
(H) Final Hydrostatic Pressure	<u>2304</u>	<u>2336</u>

11871