

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company PETROLEUM, INC.

Lease and Well No. MICHAELIS #B-4

County NESS State KANSAS Date FEBRUARY 18, 1976

Formation Test No.	<u>1</u>	Total Depth	<u>4448</u>	Elev.	<u>2591 D.F.</u>
Interval Tested	<u>4407</u>	To	<u>4448</u>	Anchor Length	<u>41'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u>	F.H. X.H.	
Mud Weight	<u>9.4</u>	Viscosity	<u>46</u>	Water Loss	<u>11</u> c.c.
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Bottom Hole Temp.	<u>120</u> °F
Length of Drill Collar		I. D.		Ticket No.	<u>14495</u>
		Length Flexweight	<u>953'</u>	I. D.	<u>2.76</u>

RECOVERY

WEAK BLOW DIED IN 15 MINUTES. FLUSHED TOOL AFTER 17 MINUTES.
GOOD SURGE. VERY WEAK BLOW DIED IN 2 MINUTES.

15 FEET OF MUD.

RECEIVED

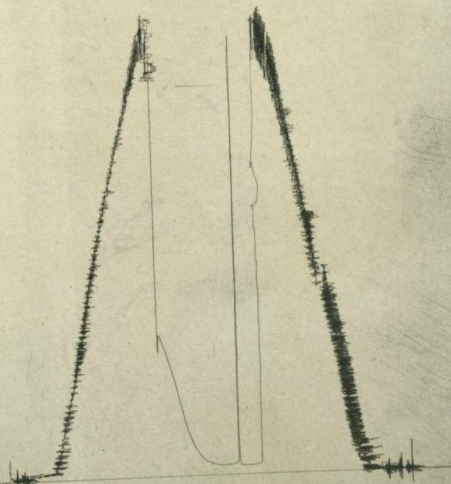
MAR 1 1976

GREAT BEND
Division Office

Lease and Well No. MICHAELIS #B-4 20 - 16S - 25W C-SW-NE

Formation Test No. 1

6

5666
14495

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2384</u>	<u>2234</u>
(B) Initial 1st Flow Pressure	<u>53</u>	<u>51</u>
(C) Final 1st Flow Pressure	<u>61</u>	<u>57</u>
(D) Initial Shut-in Pressure	<u>744</u>	<u>748</u>
(E) Initial 2nd Flow Pressure	<u>NONE TAKEN</u>	<u>NONE TAKEN</u>
(F) Final 2nd Flow Pressure	<u>NONE TAKEN</u>	<u>NONE TAKEN</u>
(G) Final Shut-in Pressure	<u>NONE TAKEN</u>	<u>NONE TAKEN</u>
(H) Final Hydrostatic Pressure	<u>2334</u>	<u>2214</u>

14495

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GREAT BEND, KANSAS

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Lease and Well No. MICHAELIS #B-4

County NESS

State KANSAS

Date FEBRUARY 19, 1976

Formation Test No. 2 Total Depth 4527 Elev. 2591 D.F.
 Interval Tested 4495 To 4527 F.H. Anchor Length 32'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 X.H. Size Packer 6 3/4
 Mud Weight 9.4 Viscosity 46 Water Loss 11 c.c. Bottom Hole Temp. 122 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 14496
 Length of Drill Collar I. D. Length Flexweight 953' I. D. 2.76

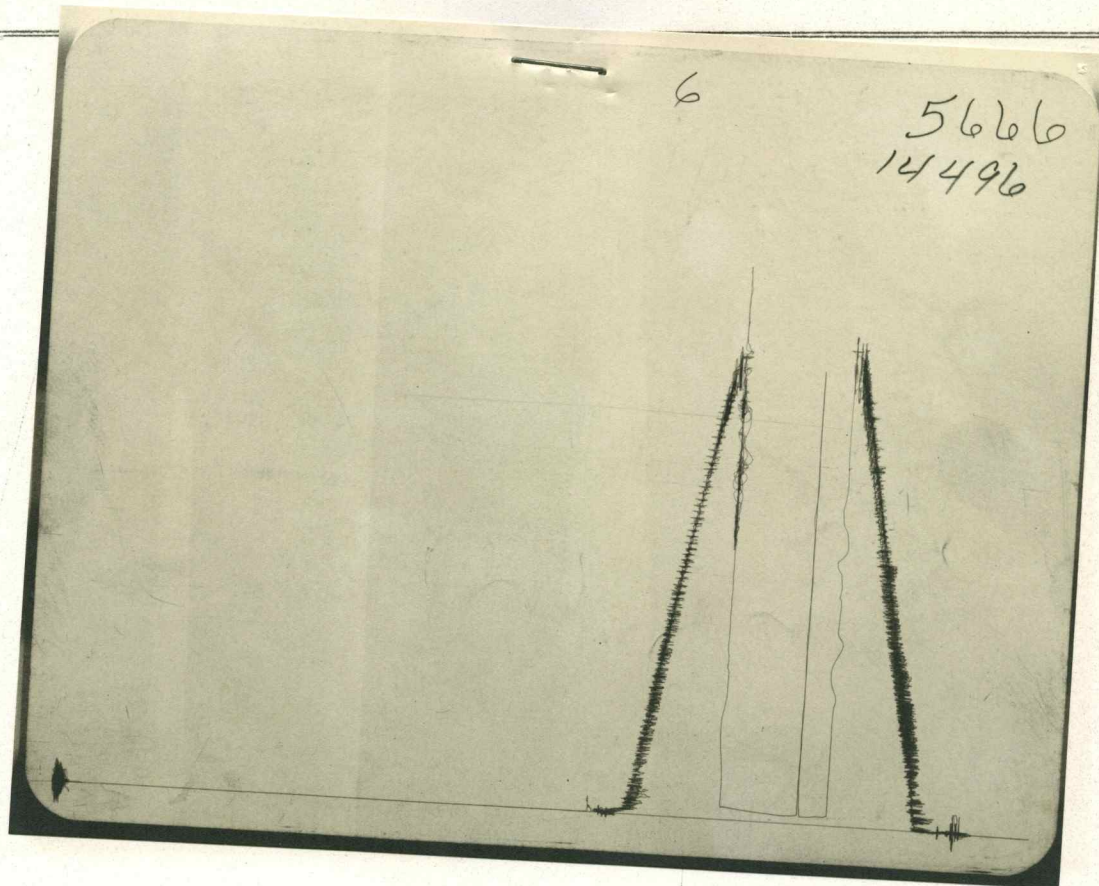
RECOVERY

WEAK BLOW DIED IN 18 MINUTES. FLUSHED TOOL AFTER 23 MINUTES.
 GOOD SURGE. VERY WEAK BLOW DIED IN 2 MINUTES.

5 FEET OF MUD.



Lease and Well No. MICHAELIS #B-4 20 - 16S - 25W C - SW - NE Formation Test No. 2



Tool Open: 1st Flow 30 mins: Shut-in Initial hr. min: 2nd Flow hr. min: Shut-in Final hr. 50 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2484</u>	<u>2254</u>
(B) Initial 1st Flow Pressure	<u>41</u>	<u>41</u>
(C) Final 1st Flow Pressure	<u>41</u>	<u>49</u>
(D) Initial Shut-in Pressure	<u>72</u>	<u>67</u>
(E) Initial 2nd Flow Pressure	<u>NONE TAKEN</u>	<u>NONE TAKEN</u>
(F) Final 2nd Flow Pressure	<u>NONE TAKEN</u>	<u>NONE TAKEN</u>
(G) Final Shut-in Pressure	<u>NONE TAKEN</u>	<u>NONE TAKEN</u>
(H) Final Hydrostatic Pressure	<u>2434</u>	<u>2234</u>

14496

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GREAT BEND, KANSAS

Company PETROLEUM, INC.

Lease and Well No. MICHAELIS #B-4

County NESS

State KANSAS

Date FEBRUARY 20, 1976

Formation Test No. <u>4</u>	Total Depth <u>4537</u>	Elev. <u>2591 D.F.</u>
Interval Tested <u>4521</u>	To <u>4537</u>	Anchor Length <u>16'</u>
Size Hole <u>7 7/8</u>	Size Drill Pipe <u>4 1/2</u> F.H. X.H.	Size Packer <u>6 3/4</u>
Mud Weight <u>9.5</u>	Viscosity <u>48</u>	Water Loss <u>10</u> c.c. Bottom Hole Temp. <u>126</u> °F
Chokes: Top <u>1/2</u>	Bottom <u>1/2</u>	Ticket No. <u>14498</u>
Length of Drill Collar	I. D.	Length Flexweight <u>953'</u> I. D. <u>2.76</u>

RECOVERY

FIRST OPENING: WEAK STEADY BLOW. SECOND OPENING: WEAK BLOW DIED IN 12 MINUTES. FLUSHED TOOL AFTER 15 MINUTES. GOOD SURGE. VERY WEAK BLOW DIED IN 3 MINUTES.

15 FEET OF MUD WITH SLIGHT OIL STAINS.

Lease and Well No. MICHAELIS #B-4

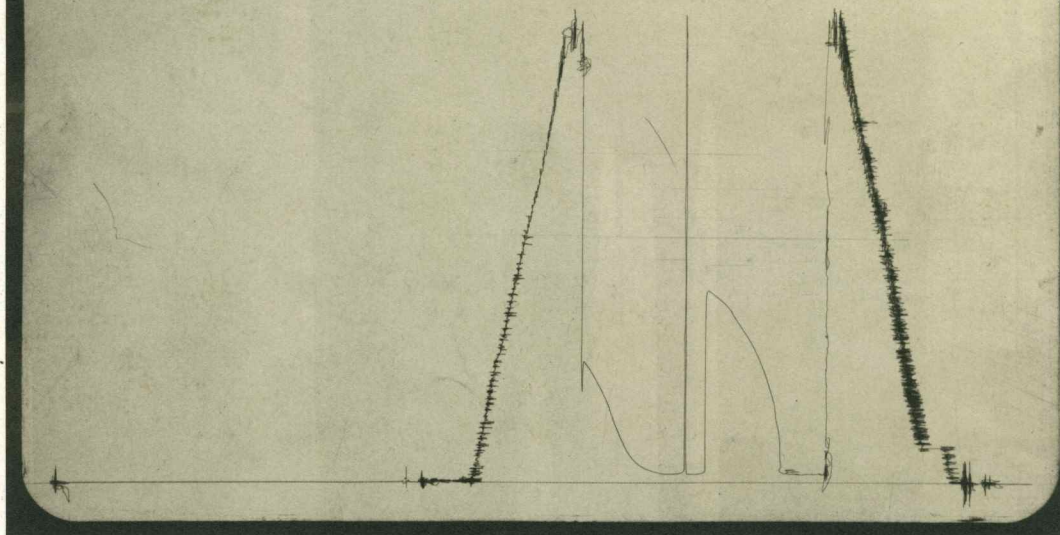
20 - 16S - 25W

C - SW - NE

Formation Test No.

4

6

14498
5666

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

	Field Reading	Corrected Reading ..
(A) Initial Hydrostatic Pressure	2374	2284
(B) Initial 1st Flow Pressure	61	41
(C) Final 1st Flow Pressure	61	45
(D) Initial Shut-in Pressure	1014	1004
(E) Initial 2nd Flow Pressure	61	51
(F) Final 2nd Flow Pressure	51	51
(G) Final Shut-in Pressure	654	636
(H) Final Hydrostatic Pressure	2374	2274

14498

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Lease and Well No. MICHAELIS #B-4

County NESS State KANSAS

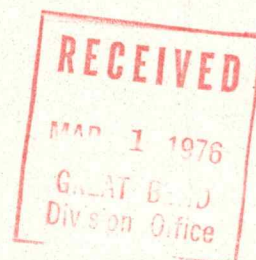
Date FEBRUARY 22, 1976

Formation Test No. 6 Total Depth 4543 Elev. 2591 D.F.
 Interval Tested 4530 To 4543 Anchor Length 13'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. X.H. Size Packer 6 3/4
 Mud Weight 9.4 Viscosity 42 Water Loss 13 c.c. Bottom Hole Temp. 126 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 14500
 Length of Drill Collar I. D. Length Flexweight 953' I. D. 2.76

RECOVERY

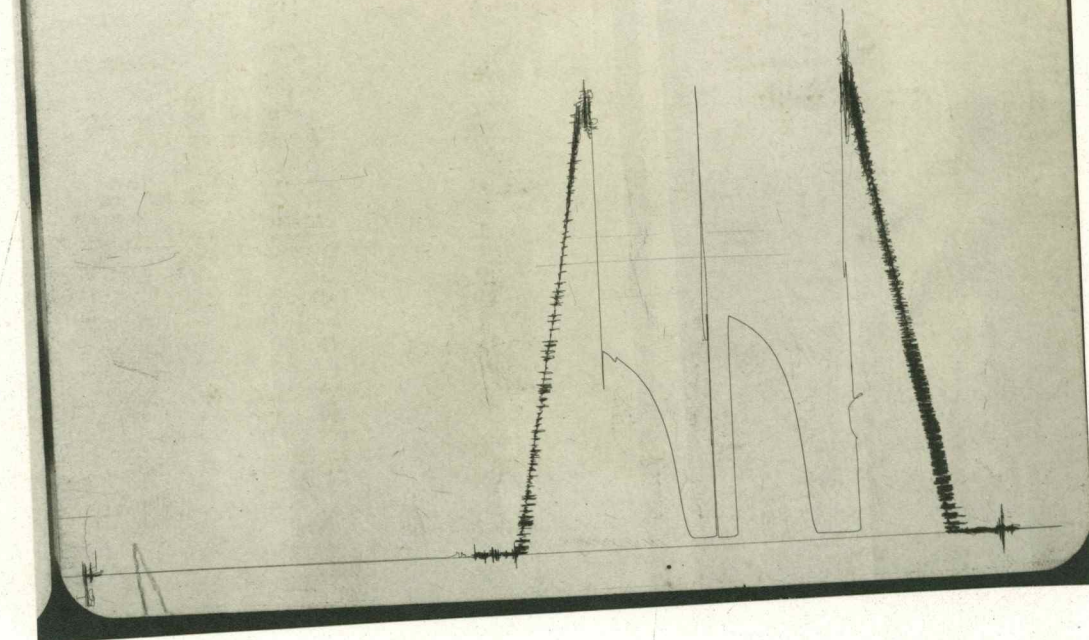
FIRST OPENING: WEAK STEADY BLOW. SECOND OPENING: WEAK BLOW
 DIED IN 12 MINUTES. FLUSHED TOOL AFTER 15 MINUTES. GOOD SURGE.
 VERY WEAK BLOW DIED IN 30 SECONDS.

20 FEET OF MUDDY WATER.



Lease and Well No. MICHAELIS #B-4 20 - 16S - 25W C - SW - NE Formation Test No. 6

6

5666
14500

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2424</u>	<u>2284</u>
(B) Initial 1st Flow Pressure	<u>41</u>	<u>30</u>
(C) Final 1st Flow Pressure	<u>51</u>	<u>34</u>
(D) Initial Shut-in Pressure	<u>1204</u>	<u>1194</u>
(E) Initial 2nd Flow Pressure	<u>61</u>	<u>41</u>
(F) Final 2nd Flow Pressure	<u>61</u>	<u>47</u>
(G) Final Shut-in Pressure	<u>1054</u>	<u>1044</u>
(H) Final Hydrostatic Pressure	<u>2404</u>	<u>2274</u>

14500

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Lease and Well No. MICHAELIS #B-4

County NESS State KANSAS

Date FEBRUARY 23, 1976

Formation Test No. 7 Total Depth 4553 Elev. 2591 D.F.
 Interval Tested 4543 To 4553 Anchor Length 10'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F.H. X.H. Size Packer 6 3/4
 Mud Weight 9.5 Viscosity 46 Water Loss 10.2 c.c. Bottom Hole Temp. 128 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 14451
 Length of Drill Collar I. D. Length Flexweight 953' I. D. 2.76

RECOVERY

FIRST OPENING: WEAK BLOW DIED IN 28 MINUTES. SECOND OPENING: WEAK BLOW DIED IN 5 MINUTES. FLUSHED TOOL AFTER 8 MINUTES. GOOD SURGE. VERY WEAK BLOW DIED IN 2 MINUTES.

10 FEET OF MUD WITH A SLIGHT OIL STAIN.



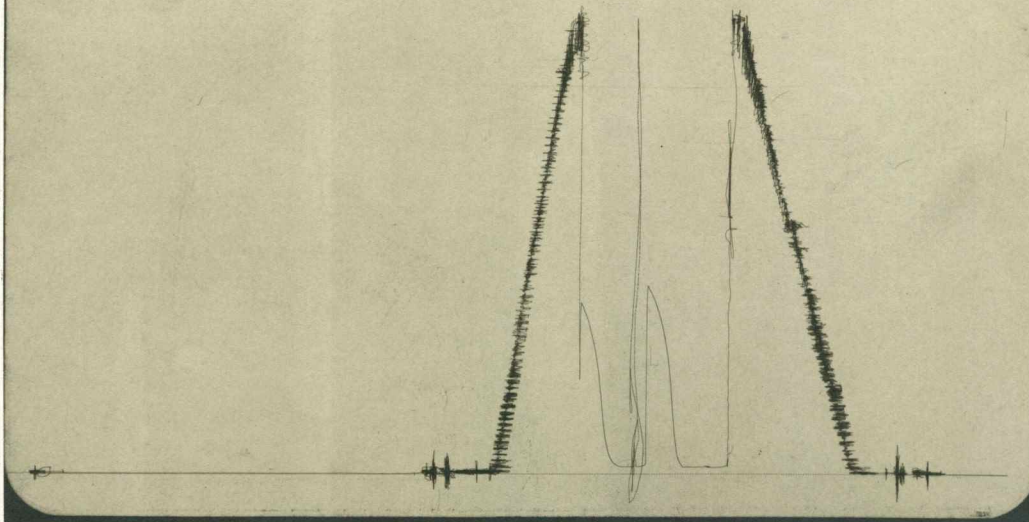
Lease and Well No. MICHAELIS #B-4

20 - 16S - 25W

C - SW - NE

Formation Test No. 7

6

5666
14451

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

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2404	2294
(B) Initial 1st Flow Pressure	51	39
(C) Final 1st Flow Pressure	51	41
(D) Initial Shut-in Pressure	944	994
(E) Initial 2nd Flow Pressure	61	41
(F) Final 2nd Flow Pressure	61	41
(G) Final Shut-in Pressure	894	904
(H) Final Hydrostatic Pressure	2394	2284

14451