MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company A. SCOTT RITCHIE

Lease and Well No. STENZEL #1

County NESS State KANSAS Date JUNE 12, 1977

Formation Test No. 1 Total Depth 4306 Elev. 2298 K. B.

Interval Tested 4237 To 4306 Anchor Length 69'

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

Mud Weight 10 Viscosity 50 Water Loss 14.2 c.c. Bottom Hole Temp. 104 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 15760

Length of Drill Collar I. D. Length Flexweight 912 I. D. 2.76

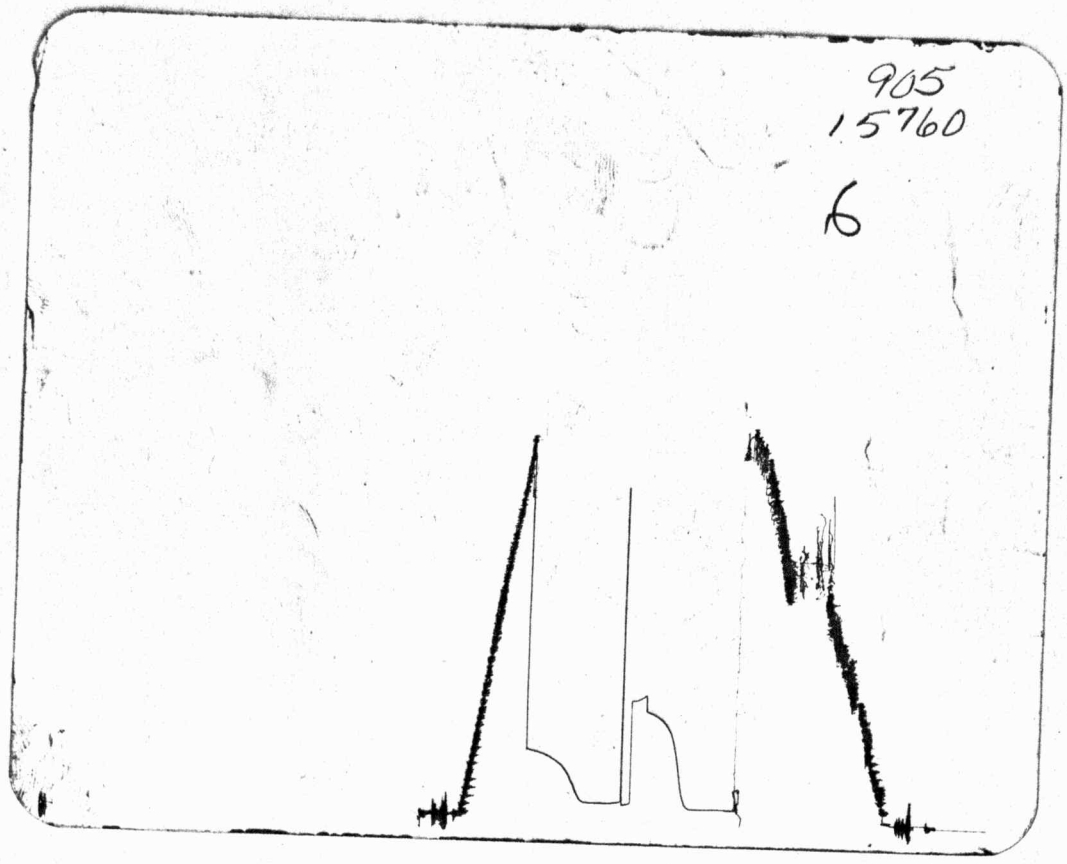
RECOVERY

WEAK BLOW THRU FIRST OPENING. NO BLOW ON SECOND OPENING.
FLUSHED TOOL SURGED AND DIED.

60 FEET OF SLIGHTLY OIL CUT MUD

Lease and Well No. STENZEL #1 17-18-24 C SE SE

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	2260	2209
(B) Initial 1st Flow Pressure	72	79
(C) Final 1st Flow Pressure	72	79
(D) Initial Shut-in Pressure	667	692
(E) Initial 2nd Flow Pressure	96	92
(F) Final 2nd Flow Pressure	96	99
(G) Final Shut-in Pressure	432	401
(H) Final Hydrostatic Pressure	2260	2147

15760

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company A. SCOTT RITCHIE

Lease and Well No. STENZEL #1

County NESS State KANSAS Date JUNE 13, 1977

Formation Test No. 2 Total Depth 4317 Elev. 2298 K. B.

Interval Tested 4275 To 4317 Anchor Length 42'

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

Mud Weight 10 Viscosity 55 Water Loss 14.2 c.c. Bottom Hole Temp. 104 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 15761

Length of Drill Collar I. D. Length Flexweight 912 I. D. 2.76

RECOVERY

WEAK BLOW INCREASING TO FAIR FIRST OPENING. WEAK TO FAIR BLOW ON SECOND OPENING.

60 FEET OF SLIGHTLY OIL CUT MUD (10% OIL)
65 FEET OF OIL CUT MUD (17% OIL)
95 FEET OF VERY HEAVY OIL CUT MUD (50% OIL)

Lease and Well No. STENZEL #1 C SE SE 17-18-24 Formation Test No. 2

COMPANY A. SCOTT RITCHIE DATE JUNE 13 1977

LEASE STENZEL WELL NO. 1 TEST NO. 2 TICKET NO. 15761

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2263
INITIAL CLOSED IN PRESSURE	45 MINUTES	1111
INITIAL FLOW	30 MINUTES	90 - 99
FINAL FLOW	60 MINUTES	126 - 158
FINAL CLOSED IN PRESSURE	45 MINUTES	993
FINAL HYDRO MUD PRESSURE		2000

TOTAL DEPTH 4317

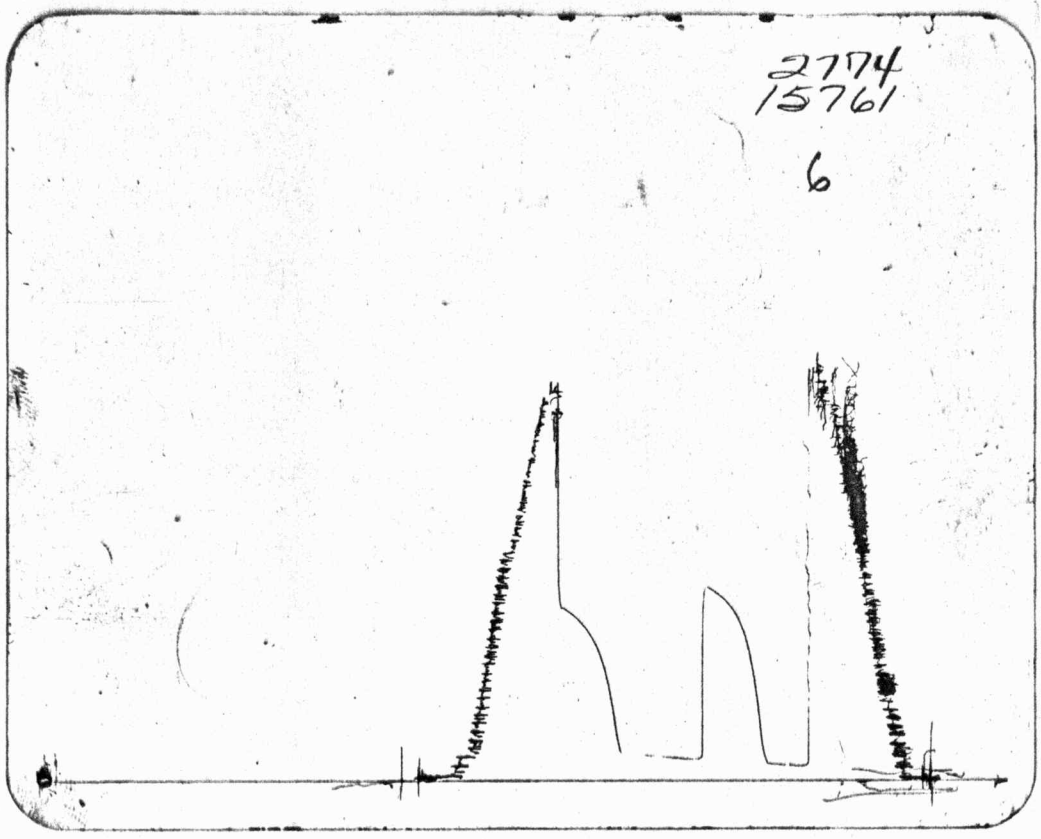
PACKER DEPTH 4275

BT. NO. 2774 DEPTH 4312

	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
		90		99		126		158
		90		214		131		315
		95		562		142		551
		99		794		149		697
				894		158		794
				976				865
				1026				911
				1061				951
				1094				976
				1111				999
	10 MINUTE INTERVAL		5 MINUTE INTERVAL		15 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 30 mins: Shut-in Initial ___ hr. 45 min: 2nd Flow ___ hr. 60 min: Shut-in Final ___ hr. 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2646	2263
(B) Initial 1st Flow Pressure	90	90
(C) Final 1st Flow Pressure	102	99
(D) Initial Shut-in Pressure	1118	1111
(E) Initial 2nd Flow Pressure	124	126
(F) Final 2nd Flow Pressure	158	158
(G) Final Shut-in Pressure	986	993
(H) Final Hydrostatic Pressure	2430	2200

15761

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company A. SCOTT RITCHIE

Lease and Well No. STENZEL #1

County NESS State KANSAS Date JUNE 13, 1977

Formation Test No. 3 Total Depth 4327 Elev. 2298 K. B.

Interval Tested 4318 To 4327 Anchor Length 9'

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

Mud Weight 10 Viscosity 50 Water Loss 14.2 c.c. Bottom Hole Temp. 105 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 15762

Length of Drill Collar I. D. Length Flexweight 912 I. D. 2.76

RECOVERY

WEAK BLOW INCREASING TO GOOD ON FIRST OPENING. FAIR TO GOOD INCREASING BLOW ON SECOND OPENING.

60 FEET OF GASSY MUDDY OIL
276 FEET OF GASSY MUDDY OIL (65% OIL 35% WATER)
83 FEET OF GASSY WATERY OIL (75% OIL 25% WATER)
10 FEET OF WATER

Lease and Well No. STENZEL #1 C SE SE 17-18-24 Formation Test No. 3

COMPANY A. SCOTT RITCHIE DATE JUNE 13, 1977

LEASE STENZEL WELL NO. 1 TEST NO. 3 TICKET NO. 15762

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2295
INITIAL CLOSED IN PRESSURE	45 MINUTES	988
INITIAL FLOW	30 MINUTES	82 - 111
FINAL FLOW	60 MINUTES	127 - 195
FINAL CLOSED IN PRESSURE	60 MINUTES	891
FINAL HYDRO MUD PRESSURE		2237

TOTAL DEPTH 4327

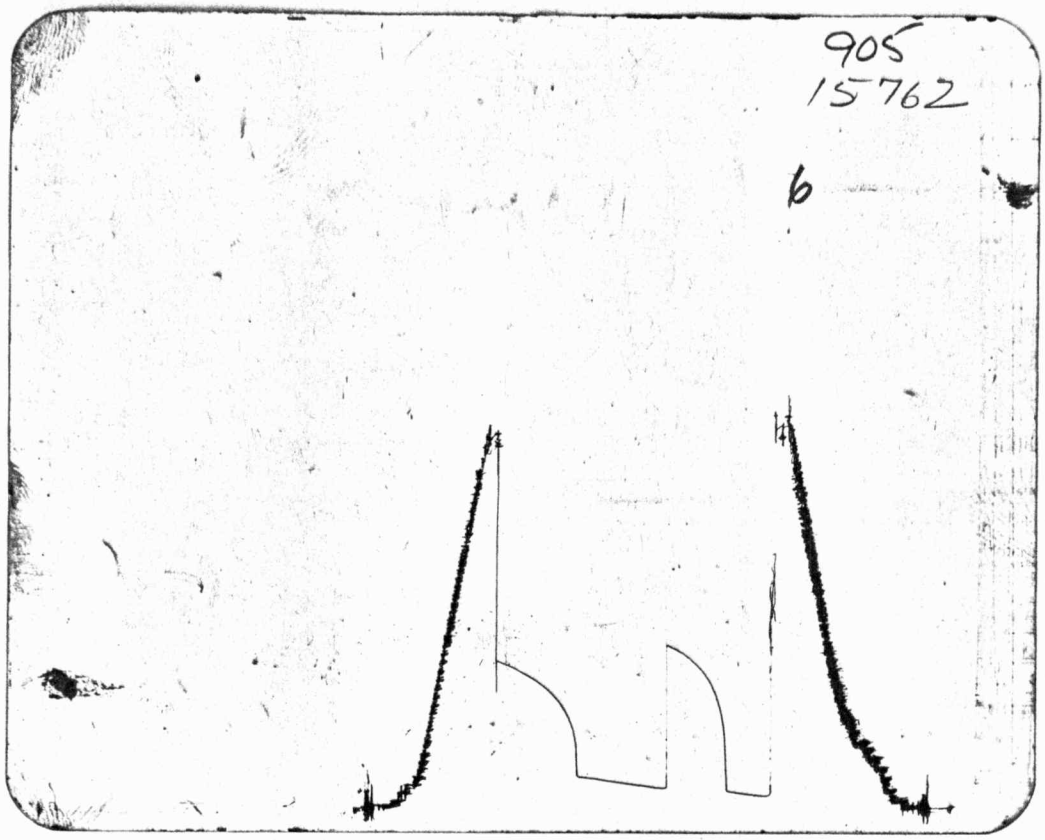
PACKER DEPTH 4318

BT. NO. 905 DEPTH 4322

	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
		82		111		127		195
		87		586		139		500
		94		702		156		609
		111		795		173		660
				844		195		714
				886				740
				923				774
				951				798
				974				823
				988				844 863
								879
								891
	10 MINUTE INTERVAL		5 MINUTE INTERVAL		15 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 30 mins: Shut-in Initial ___ hr. 45 min: 2nd Flow ___ hr. 60 min: Shut-in Final ___ hr. 60 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2237	2295
(B) Initial 1st Flow Pressure	84	82
(C) Final 1st Flow Pressure	108	111
(D) Initial Shut-in Pressure	993	988
(E) Initial 2nd Flow Pressure	120	127
(F) Final 2nd Flow Pressure	192	195
(G) Final Shut-in Pressure	888	891
(H) Final Hydrostatic Pressure	2237	2237

15762

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company A. SCOTT RITCHIE

Lease and Well No. STENZEL #1

County NESS State KANSAS Date JUNE 14, 1977

Formation Test No. 4 Total Depth 4337 Elev. 2298 K. B.

Interval Tested 4327 To 4337 Anchor Length 10'

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 9.5 c.c. Bottom Hole Temp. 108 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 15763

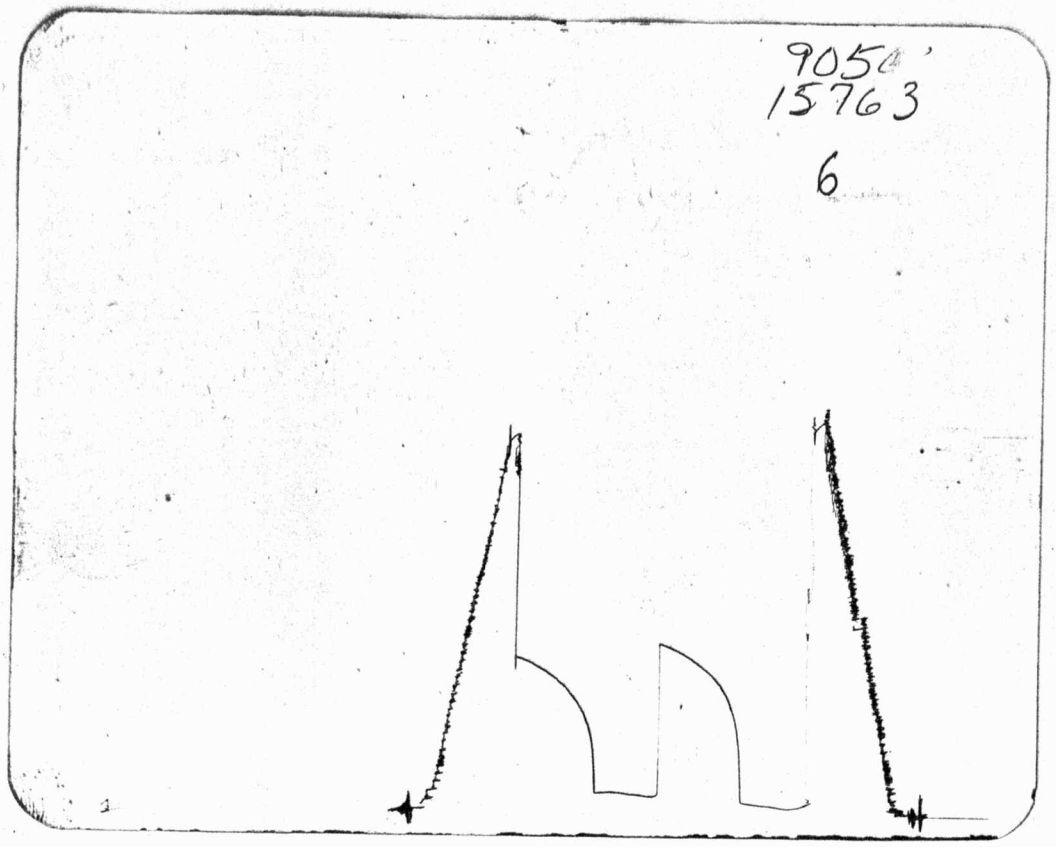
Length of Drill Collar I. D. Length Flexweight 912 I. D. 2.76

RECOVERY

WEAK BLOW THROUGHOUT FIRST OPENING. BLOW DECREASED TO DEAD IN 45 MINUTES ON I.S.I. WEAK BLOW THROUGHOUT SECOND OPENING.

280 FEET OF MUDDY WATER.

Lease and Well No. STENZEL #1 C SE SE 17-18-24 Formation Test No. 4



Tool Open: 1st Flow ___ hr. 45 mins: Shut-in Initial ___ hr. 60 min: 2nd Flow ___ hr. 45 min: Shut-in Final ___ hr. 60 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2329	2316
(B) Initial 1st Flow Pressure	48	36
(C) Final 1st Flow Pressure	72	70
(D) Initial Shut-in Pressure	1039	1030
(E) Initial 2nd Flow Pressure	108	106
(F) Final 2nd Flow Pressure	132	127
(G) Final Shut-in Pressure	946	947
(H) Final Hydrostatic Pressure	2237	2235

15763