

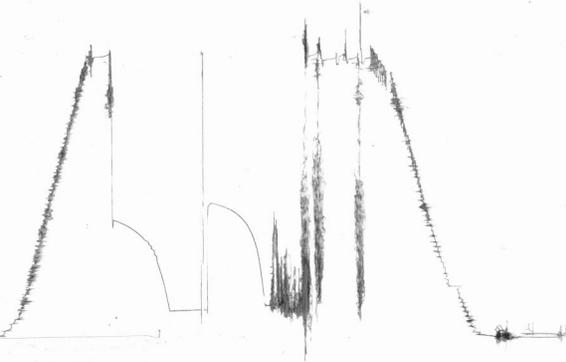
Tool Open: 1st Flow 30 mins: Shut-in Initial 45 min: 2nd Flow 30 min: Shut-in Final 45 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1778	1786
(B) Initial 1st Flow Pressure	150	188
(C) Final 1st Flow Pressure	175	200
(D) Initial Shut-in Pressure	862	855
(E) Initial 2nd Flow Pressure	175	173
(F) Final 2nd Flow Pressure	175	173
(G) Final Shut-in Pressure	741	754
(H) Final Hydrostatic Pressure	1754	1755

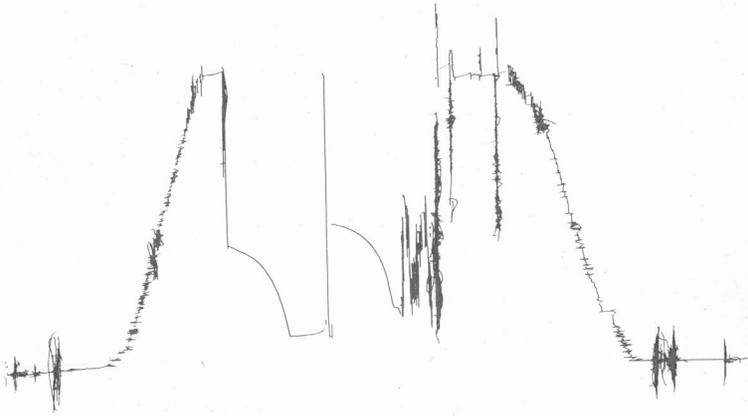
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# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company GRAVES DRILLING COMPANY

Lease and Well No. KRAMPE #1

County STAFFORD State KANSAS Date 7-16-79

Formation Test No. 1 Total Depth 3566 Elev. \_\_\_\_\_

Interval Tested 3514 To 3566 Anchor Length 52'

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

Mud Weight 9.7 Viscosity 45 Water Loss \_\_\_\_\_ c.c. Bottom Hole Temp. 102 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17242

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 410' I. D. 2.76

### RECOVERY

FIRST FLOW: WEAK BLOW, DIED IN 10 MINUTES.  
SECOND FLOW: NO BLOW. FLUSHED TOOL, NO HELP.

SLID TOOL 25 FEET TO BOTTOM.  
220 FEET OF DRILLING MUD.  
TOOL PLUGGING ON FIRST FLOW.

Lease and Well No.

KRAMPE #1

15-21S-14W

NE NE SW

Formation Test No.

1

# MILLER TESTING COMPANY

Box 547

## GREAT BEND, KANSAS

Company GRAVES DRILLING COMPANY

Lease and Well No. KRAMPE #1

County STAFFORD State KANSAS Date 7-16-79

Formation Test No. 2 Total Depth 3621 Elev. \_\_\_\_\_

Interval Tested 3596 To 3621 Anchor Length 25'

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

Mud Weight 9.7 Viscosity 45 Water Loss \_\_\_\_\_ c.c. Bottom Hole Temp. 104 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17243

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 410' I. D. 2.76

### RECOVERY

FIRST FLOW: WEAK BLOW THROUGHOUT TEST.  
SECOND FLOW: VERY WEAK BLOW. FLUSHED TOOL, WEAK BLOW.

30 FEET OF OIL CUT MUD.  
240 FEET OF GASSY OIL CUT MUD.

Lease and Well No. KRAMPE #1 15-21S-14W NE NE SW Formation Test No. 2

COMPANY GRAVES DRILLING COMPANY DATE 7-16-79

LEASE KRAMPE WELL NO. 1 TEST NO. 2 TICKET NO. 17243

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1851
INITIAL CLOSED IN PRESSURE	45 MINUTES	1123
INITIAL FLOW	30 MINUTES	80-115
FINAL FLOW	60 MINUTES	115-130
FINAL CLOSED IN PRESSURE	60 MINUTES	1111
FINAL HYDRO MUD PRESSURE		1834

TOTAL DEPTH 3621

PACKER DEPTH 3596

AK-1 NO. 6077 DEPTH 3616

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
80		115		115		130	1111
80		215		115		568	
80		882		115		983	
115		1048		125		1031	
		1080		130		1056	
		1101				1072	
		1109				1082	
		1114				1087	
		1118				1094	
		1123				1097	
						1104	
						1109	
10 MINUTE INTERVAL		5 MINUTE INTERVAL		15 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS \_\_\_\_\_

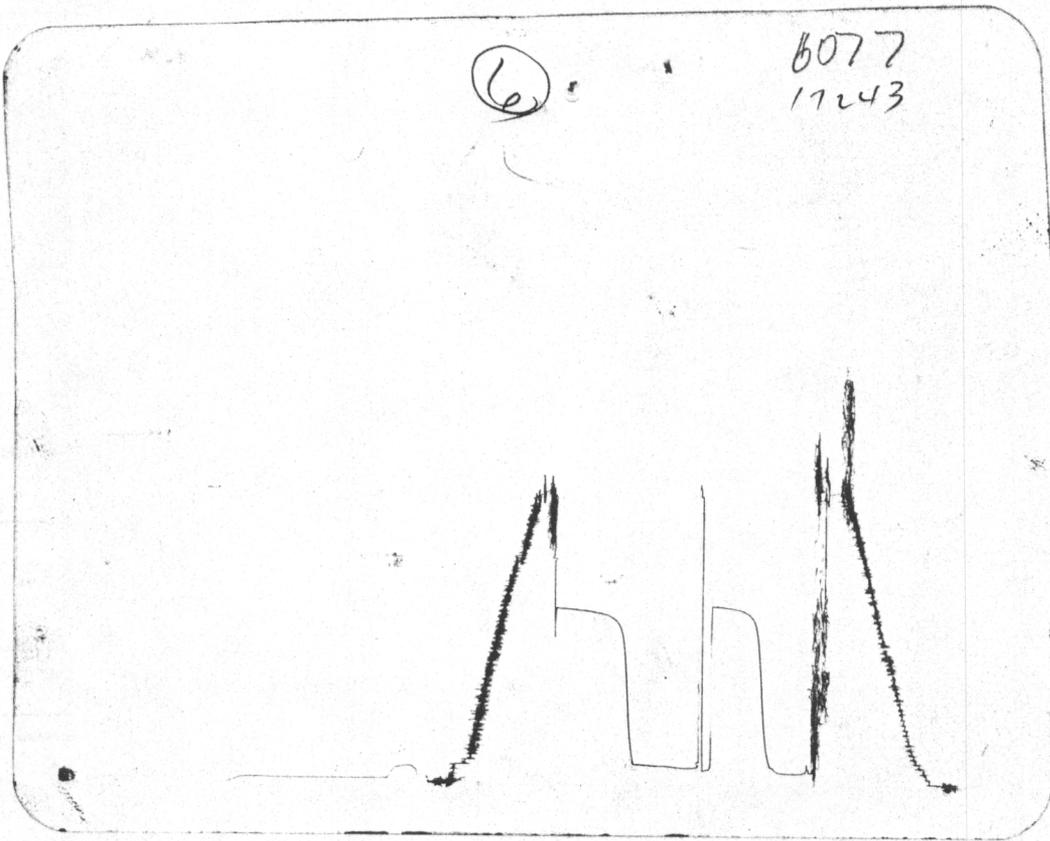
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**SPECIAL PRESSURE DATA**

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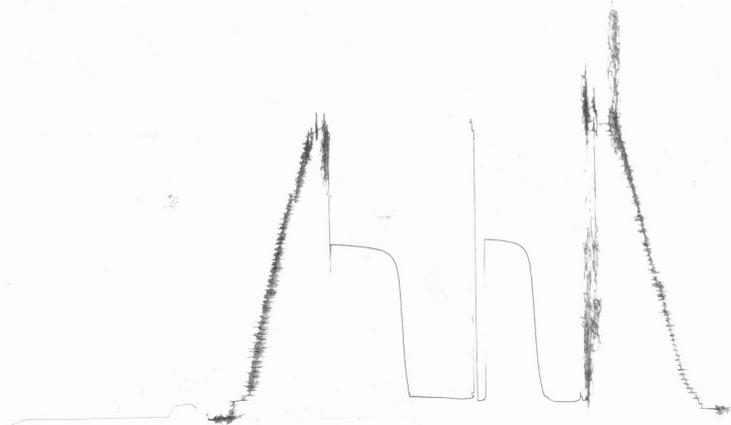
Tool Open: 1st Flow 30 hrs: Shut-in Initial 45 min: 2nd Flow 60 min: Shut-in Final 60 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1826</u>	<u>1851</u>
(B) Initial 1st Flow Pressure	<u>112</u>	<u>80</u>
(C) Final 1st Flow Pressure	<u>112</u>	<u>115</u>
(D) Initial Shut-in Pressure	<u>1128</u>	<u>1123</u>
(E) Initial 2nd Flow Pressure	<u>100</u>	<u>115</u>
(F) Final 2nd Flow Pressure	<u>137</u>	<u>130</u>
(G) Final Shut-in Pressure	<u>1103</u>	<u>1111</u>
(H) Final Hydrostatic Pressure	<u>1802</u>	<u>1834</u>

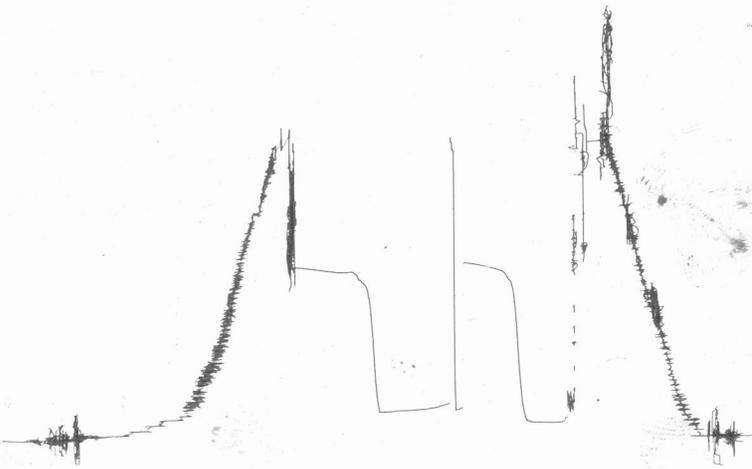
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DATE 7-17-79  
 SEC. 15 TWN 21S RG 14W  
 LEGAL DESCRIPTION NE/NE/SW



TICKET N<sup>o</sup> 17244  
 TEST NO. 3

COMPANY GRAVES DRUG Co  
 ADDRESS \_\_\_\_\_  
 LEASE KRAMPE WELL NO. 1 COUNTY STAFFORD STATE Ks  
 INVOICES SENT TO: Same  
 DST COPIES SENT TO: \_\_\_\_\_

GENERAL INFORMATION			
TOOL JT. <u>4 1/2 X</u>	HOLE SIZE <u>7 7/8</u>	PACKER O.D. <u>6 3/4</u>	
ELEV. _____	TOTAL DEPTH <u>3690</u>		
TESTED FROM <u>3624</u>	TO <u>3690</u>		
ANCHOR LENGTH BELOW <u>66"</u>	BETWEEN _____		
TOOL OPEN 1ST FLOW _____	A.M. <u>4:30</u>	P.M. _____	
TOOL CLOSED INITIAL SHUT-IN _____	A.M. <u>4:45</u>	P.M. _____	
TOOL OPEN 2ND FLOW _____	A.M. <u>5:30</u>	P.M. _____	
TOOL CLOSED FINAL SHUT-IN _____	A.M. <u>6:30</u>	P.M. _____	
MUD WT. <u>9.7</u>	VISCOSITY <u>45</u>	W.L. _____	C.C. _____
SP. GRAVITY OIL _____	BOTTOM HOLE TEMPERATURE <u>104°</u>		
LENGTH DRILL COLLAR _____	I.D. _____		
LENGTH WEIGHT PIPE <u>410</u>	I.D. <u>2.76</u>		
SUCCESSFUL TEST NO. _____	MISRUN NO. _____		
CHOKES: TOP <u>1/2</u>	BOTTOM <u>1/2</u>		

PRESSURE DATA & TIME		
	FIELD READINGS	CORRECTED READINGS
INITIAL HYDROSTATIC	<u>1947</u>	<u>1925</u>
INITIAL 1ST FLOW	<u>120</u>	<u>118</u>
FINAL 1ST FLOW	<u>120</u>	<u>118</u>
INITIAL SHUT-IN	<u>669</u>	<u>615</u>
INITIAL 2ND FLOW	<u>120</u>	<u>118</u>
FINAL 2ND FLOW	<u>175</u>	<u>163</u>
FINAL SHUT-IN	<u>765</u>	<u>715</u>
FINAL HYDROSTATIC	<u>1923</u>	<u>1815</u>
TOOL OPEN: 1ST FLOW		HR. <u>15</u> MIN.
INITIAL SHUT-IN		HR. <u>45</u> MIN.
2ND FLOW		HR. <u>60</u> MIN.
FINAL SHUT-IN		HR. <u>60</u> MIN.
TOP RECORDER NO. <u>6077</u>	BOTTOM RECORDER NO. <u>10265</u>	

TYPE BLOW 1st FLOW & WEAK BLOW DIED IN 12 MIN.  
2nd FLOW NO BLOW FLUSHED TOOL WEAK BLOW  
 RECOVERY: 50 min.

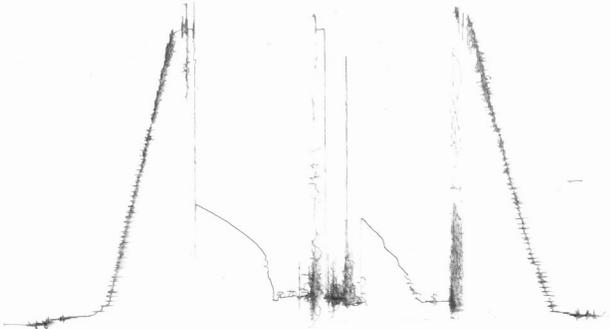
120 DRG. mud.  
Plugged Anchor.

EXTRA EQUIPMENT NONE  
 APPROVED BY: Richard O. [Signature] MILLER TESTING COMPANY  
 TESTER: Dan Delaney  
 FORMATION TESTED \_\_\_\_\_  
 OPERATOR TIME: \_\_\_\_\_

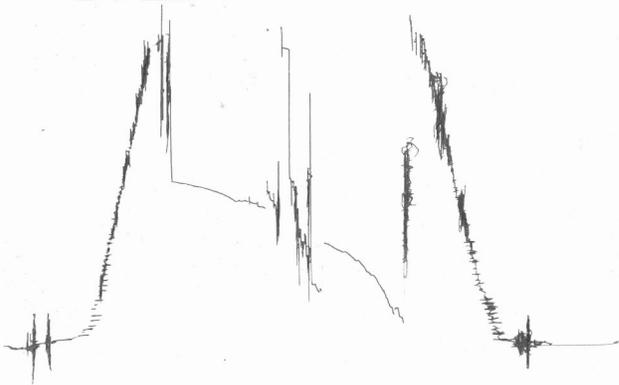
SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE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

CHARGES	
TEST CHARGE	\$ _____
EXTRA PACKERS	\$ _____
JARS	\$ _____
SAFETY JOINT	\$ _____
HOOK WALL	\$ _____
MISRUN CHARGE	\$ <u>275.00</u>
STAND-BY CHARGE	\$ _____
DST EVALUATION	\$ _____
STRADDLE	\$ _____
TOTAL	\$ <u>275.00</u>

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# MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company GRAVES DRILLING COMPANY

Lease and Well No. KRAMPE #1

County STAFFORD State KANSAS Date 7-19-79

Formation Test No. 5 Total Depth 3730 Elev. \_\_\_\_\_

Interval Tested 3693 To 3730 Anchor Length 37'

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

Mud Weight 9.7 Viscosity 45 Water Loss \_\_\_\_\_ c.c. Bottom Hole Temp. \_\_\_\_\_ °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17246

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 410' I. D. 2.76

## RECOVERY

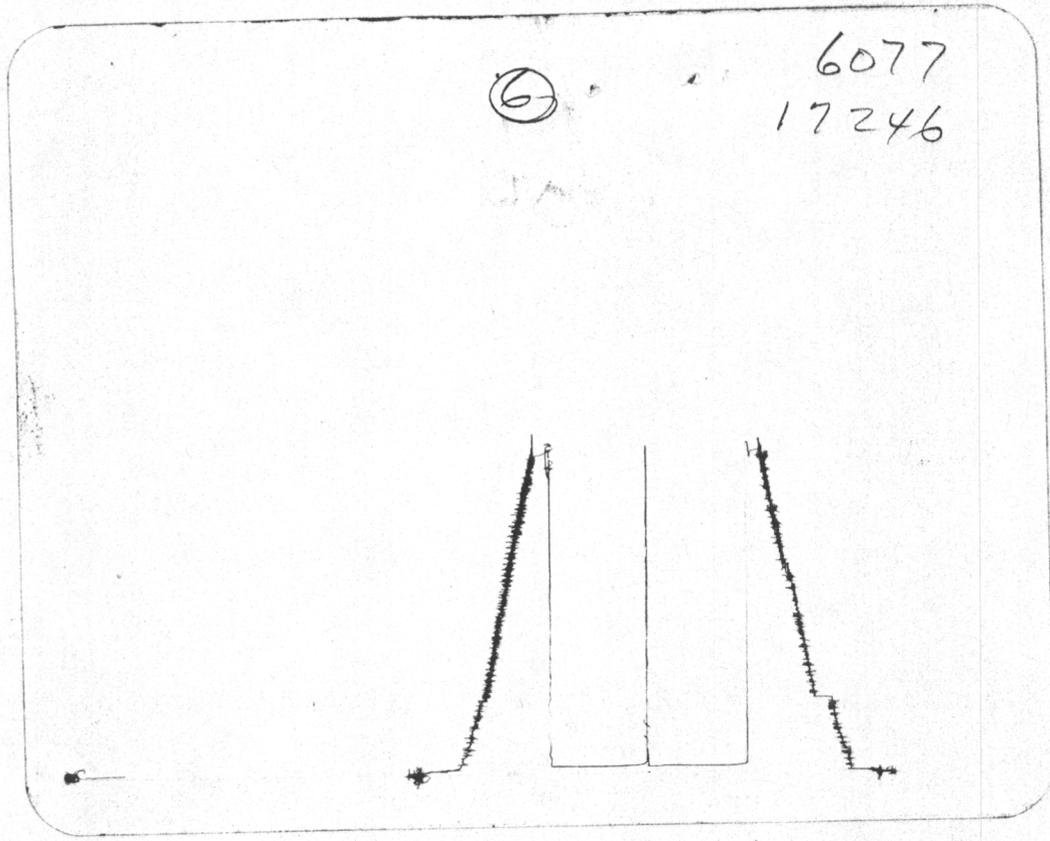
FIRST FLOW: WEAK BLOW, DIED IN 6 MINUTES.  
SECOND FLOW: NO BLOW. FLUSHED TOOL, NO HELP.

10 FEET OF DRILLING MUD.

Lease and Well No. KRAMPE #1 15-21S-14W NE NE SW Formation Test No. 5

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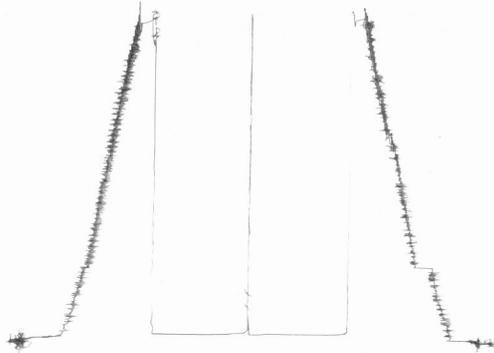
Tool Open: 1st Flow hr. 15 mins: Shut-in Initial hr. 45 min: 2nd Flow hr. 45 min: Shut-in Final hr. 45 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2115</u>	<u>2055</u>
(B) Initial 1st Flow Pressure	<u>50</u>	<u>40</u>
(C) Final 1st Flow Pressure	<u>50</u>	<u>40</u>
(D) Initial Shut-in Pressure	<u>55</u>	<u>45</u>
(E) Initial 2nd Flow Pressure	<u>50</u>	<u>40</u>
(F) Final 2nd Flow Pressure	<u>50</u>	<u>40</u>
(G) Final Shut-in Pressure	<u>50</u>	<u>40</u>
(H) Final Hydrostatic Pressure	<u>2091</u>	<u>2029</u>

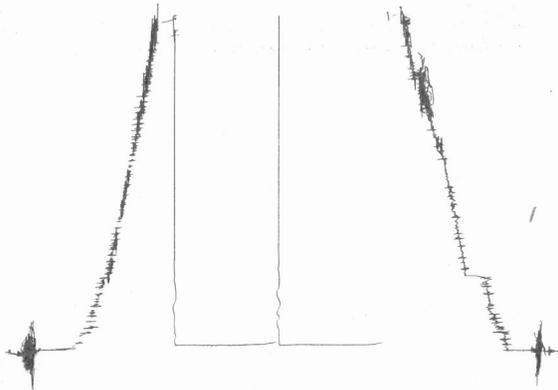
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# MILLER TESTING COMPANY

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## GREAT BEND, KANSAS

Company GRAVES DRILLING COMPANY

Lease and Well No. KRAMPE #1

County STAFFORD State KANSAS Date 7-18-79

Formation Test No. 4 Total Depth 3690 Elev. \_\_\_\_\_

Interval Tested 3624 To 3690 Anchor Length 66'

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

Mud Weight 9.7 Viscosity 45 Water Loss \_\_\_\_\_ c.c. Bottom Hole Temp. \_\_\_\_\_ °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17245

Length of Drill Collar \_\_\_\_\_ I. D. \_\_\_\_\_ Length Flexweight 410' I. D. 2.76

### RECOVERY

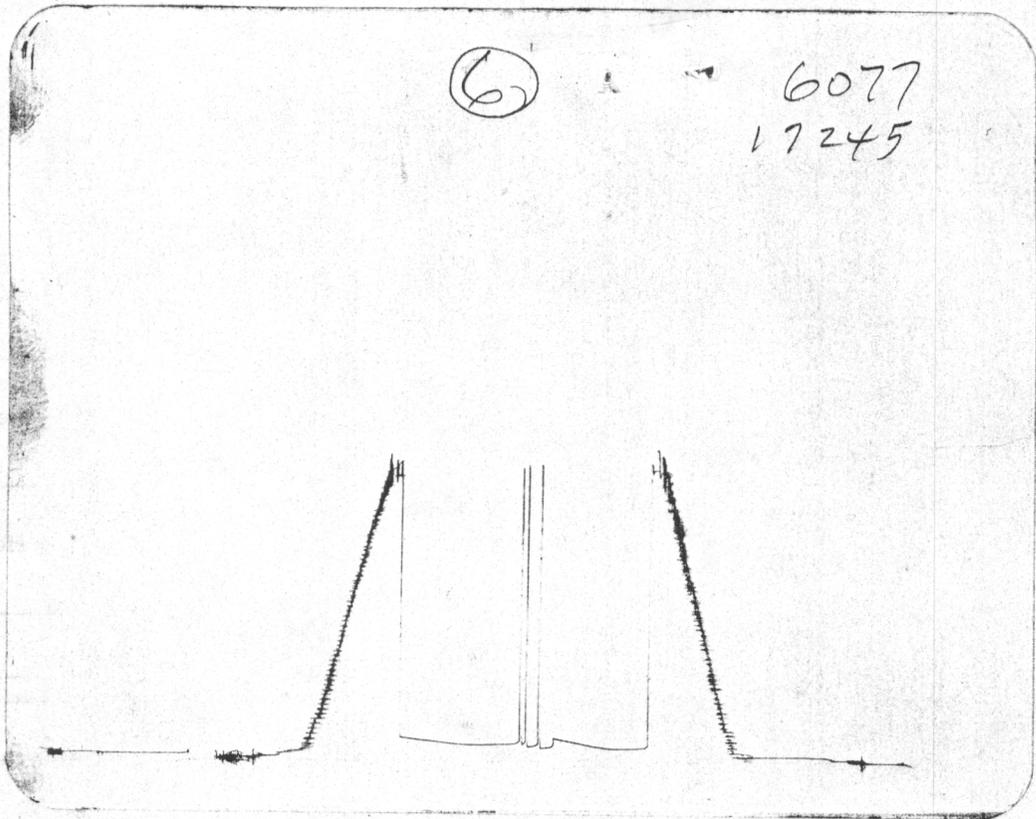
FIRST FLOW: WEAK BLOW THROUGHOUT TEST.  
SECOND FLOW: NO BLOW. FLUSHED TOOL 3 TIMES, GOOD SURGE. WEAK BLOW FOR 2 MINUTES.

70 FEET OF DRILLING MUD.

Lease and Well No. KRAMPE #1  
15-21S-14W  
NE NE SW  
Formation Test No. 4

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Tool Open: 1st Flow hr. 20 mins: Shut-in Initial hr. 45 min: 2nd Flow hr. 60 min: Shut-in Final hr. 45 min.

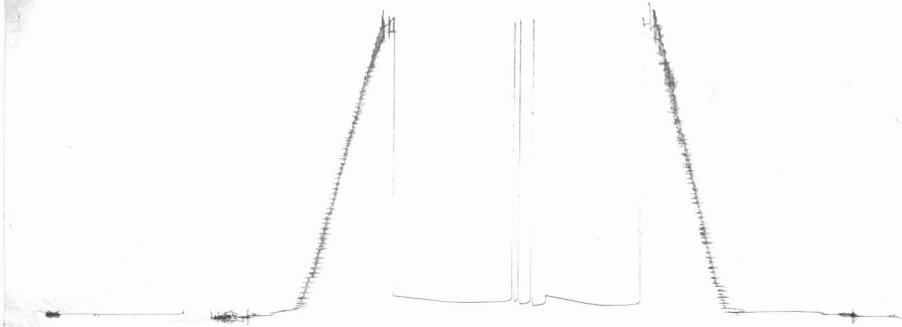
	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1949</u>	<u>1950</u>
(B) Initial 1st Flow Pressure	<u>100</u>	<u>78</u>
(C) Final 1st Flow Pressure	<u>100</u>	<u>78</u>
(D) Initial Shut-in Pressure	<u>175</u>	<u>148</u>
(E) Initial 2nd Flow Pressure	<u>112</u>	<u>88</u>
(F) Final 2nd Flow Pressure	<u>137</u>	<u>108</u>
(G) Final Shut-in Pressure	<u>152</u>	<u>150</u>
(H) Final Hydrostatic Pressure	<u>1937</u>	<u>1933</u>

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