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## PICK TESTERS

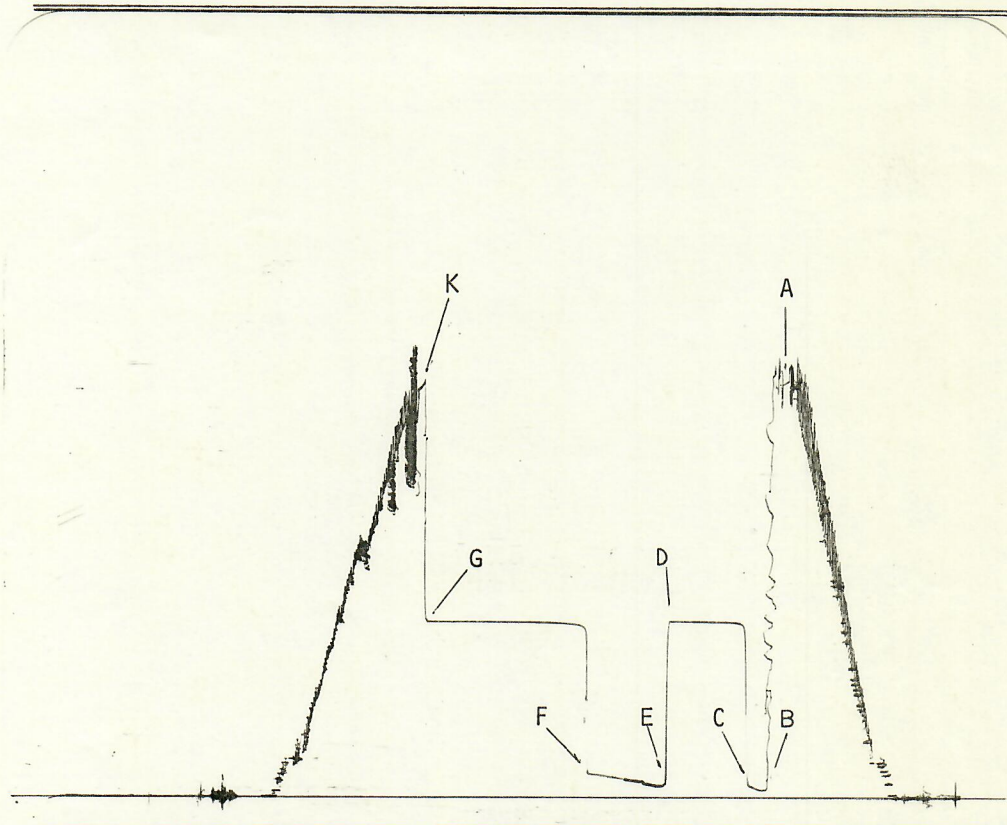
Kennedy & Mitchell Inc.  
OperatorVenohr Cedar Creek #1-987-2  
Well Name and No.1  
DST No.

Recorder Type Kuster AK-1  
No. 13338 Cap. 4950 psi  
Depth 5115 feet  
Inside X Outside

Initial Hydrostatic A 2637.9  
Final Hydrostatic K 2612.8  
Initial Flow B 61.5  
Final Initial Flow C 85.2  
Initial Shut-in D 1131.7  
Second Initial Flow E 97.6  
Second Final Flow F 163.6  
Second Shut-in G 1130.9  
Third Initial Flow H \_\_\_\_\_  
Third Final Flow I \_\_\_\_\_  
Third Shut-in J \_\_\_\_\_

Recorder Type \_\_\_\_\_  
No. \_\_\_\_\_ Cap. \_\_\_\_\_ psi  
Depth \_\_\_\_\_ feet  
Inside \_\_\_\_\_ Outside \_\_\_\_\_

Initial Hydrostatic A \_\_\_\_\_  
Final Hydrostatic K \_\_\_\_\_  
Initial Flow B \_\_\_\_\_  
Final Initial Flow C \_\_\_\_\_  
Initial Shut-in D \_\_\_\_\_  
Second Initial Flow E \_\_\_\_\_  
Second Final Flow F \_\_\_\_\_  
Second Shut-in G \_\_\_\_\_  
Third Initial Flow H \_\_\_\_\_  
Third Final Flow I \_\_\_\_\_  
Third Shut-in J \_\_\_\_\_





# HORNER PLOT

Kennedy & Mitchell, Inc.  
Venohr Cedar Creek #1-987-2, DST 1  
Interval: 5122'- 5132'

Recorder No. 13617 @ 5110'

$P_{si} = 1127.5$  psi

$P_{sf} = 1127.2$  psi

$P_2(P_{ST} \times 10^{-3})$

I S I

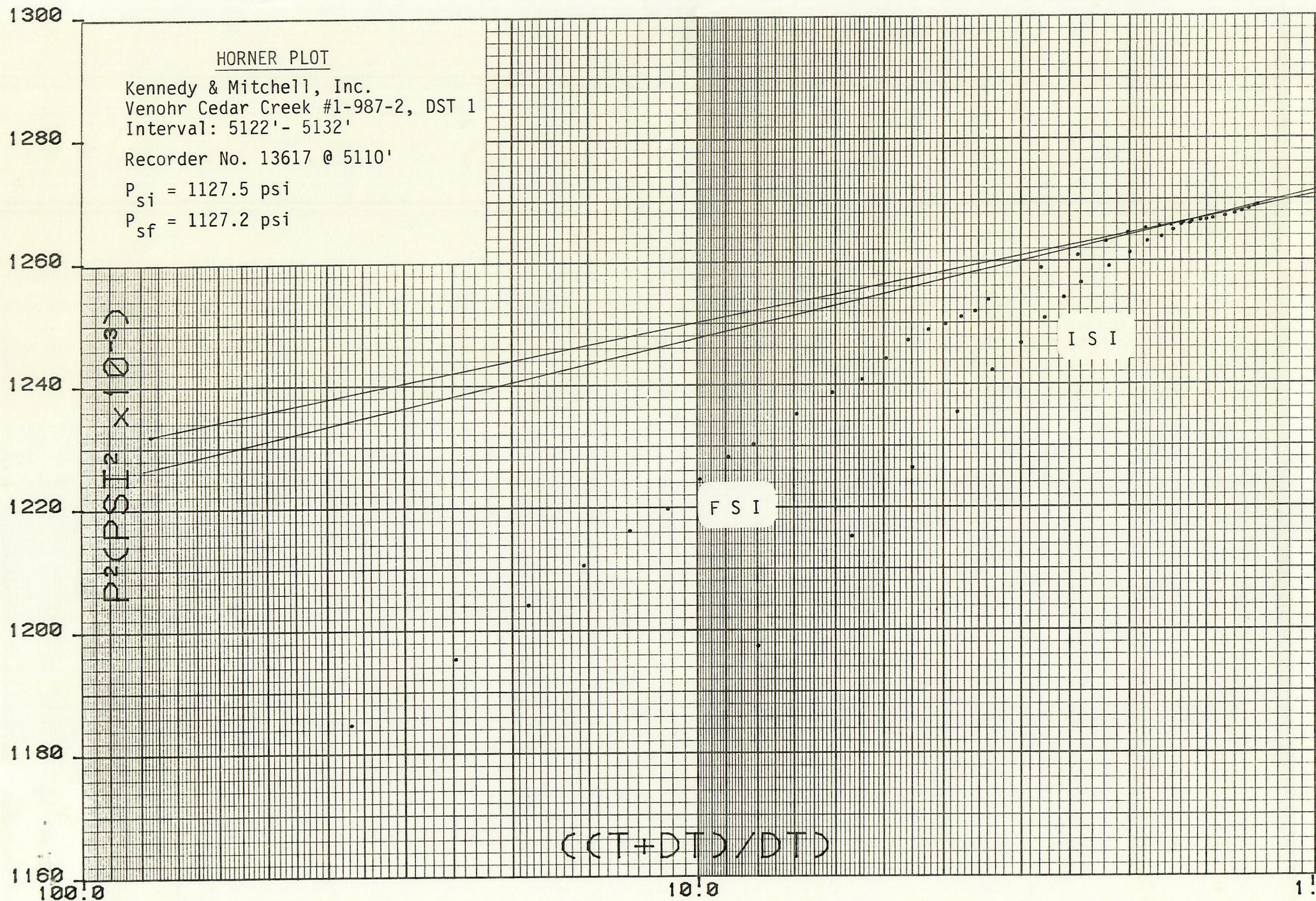
F S I

$((T+DT)/DT)$

1160  
100.0

10.0

1.0





# PICK TESTERS

## DISTRIBUTION OF FINAL REPORTS

Kennedy & Mitchell, Inc.  
Operator

Venohr Cedar Creek #1-987-2  
Well Name and No.

KENNEDY & MITCHELL INC. 2  
P.O. BOX 27-D  
DENVER CO 80227

NORTHERN MICHIGAN EXPLORATION CO. 2  
P.O. BOX 1150  
JACKSON MI 49204

MISSION RESOURCES 2  
P.O. BOX 2300  
OAKLAND CA 94614

GOOLSBY BROTHERS & ASSOC. INC. 1  
2345 S. DOWNING ST.  
DENVER CO 80210

BILL MCKNAB 1  
718 17TH ST. SUITE 540  
DENVER CO 80202

COLORADO OIL & GAS COMM. 1  
1580 LOGAN ST. SUITE 380  
DENVER CO 80203

# PICK TESTERS

## INCREMENTAL READING DATA

Kennedy & Mitchell, Inc.  
Operator

Venohr Cedar Creek #1-987-2  
Well Name and No.

1  
DST No.

RECORDER NO. 13617 DEPTH 5110 FT.

### INITIAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(P SIG)</u>
----------------	------------------------

0	58.6
5	48.7
10	65.5
14	81.3

RECORDER NO. 13617 DEPTH 5110 FT.

### FINAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(P SIG)</u>
----------------	------------------------

0	94.3
5	77.6
10	85.2
15	93.6
20	106.3
25	112.6
30	121.3
35	127.9
40	134.9
45	141.8
50	147.1
55	153.5
58	157.4



# PICK TESTERS

## INCREMENTAL READING DATA

Kennedy & Mitchell, Inc.  
Operator

Venohr Cedar Creek #1-987-2  
Well Name and No.

1  
DST No.

RECORDER NO. 13617 DEPTH 5110 FT.

### INITIAL SHUT-IN

INITIAL FLOW TIME: T = 14 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)	DP(PSIG)	P SQR X .001
0		81.3	0.0	
1	1.176	142.8	61.4	20.4
2	.903	1094.3	1013.0	1197.5
3	.753	1102.5	1021.1	1215.4
4	.653	1107.5	1026.1	1226.5
5	.580	1111.6	1030.3	1235.6
6	.523	1114.7	1033.3	1242.5
7	.477	1116.6	1035.3	1246.8
8	.439	1118.5	1037.1	1251.0
9	.407	1120.0	1038.6	1254.3
10	.380	1121.0	1039.7	1256.7
12	.336	1122.2	1040.9	1259.4
14	.301	1123.2	1041.9	1261.6
16	.273	1124.1	1042.7	1263.5
18	.250	1124.4	1043.0	1264.2
20	.230	1124.9	1043.6	1265.4
22	.214	1125.4	1044.1	1266.5
24	.200	1125.5	1044.1	1266.7
26	.187	1125.5	1044.2	1266.8
28	.176	1125.6	1044.3	1267.0
30	.166	1125.7	1044.4	1267.2
35	.146	1125.9	1044.5	1267.6
40	.130	1126.0	1044.7	1268.0
45	.118	1126.2	1044.9	1268.4
50	.107	1126.4	1045.1	1268.8
55	.098	1126.6	1045.2	1269.2
58	.094	1126.7	1045.3	1269.4

EXTRAPOLATED PRESSURE: 1127.5 PSI  
SLOPE: 23623.4 PSI SQUARED/LOG CYCLE  
POINTS USED: 11



# PICK TESTERS

## SAMPLER REPORT

Company Kennedy & Mitchell Inc. Date 8/7/85  
Well Name & No. Venohr Cedar Creek #1-987-2 Ticket No. 1122  
County Logan State Colorado  
Test Interval 5122'- 5132' DST No. 1

Pressure in Sampler: 120 \_\_\_\_\_ psig

Total Volume of Sampler: 2150 \_\_\_\_\_ cc.

Total Volume of Sample: 300 \_\_\_\_\_ cc.

Oil: None \_\_\_\_\_ cc.

Water: 300 \_\_\_\_\_ cc.

Mud: Trace \_\_\_\_\_ cc.

Gas: 1.5 \_\_\_\_\_ cu. ft.

Other: None \_\_\_\_\_

Sample R W: 1.9 @ 92°F- 1.32 @ Res Temp = 2,262 ppm NaCl., 1,375 ppm Cl.

### Resistivity

Make Up Water \_\_\_\_\_ @ \_\_\_\_\_ °F of Chloride Content \_\_\_\_\_ ppm.

Mud Pit Sample 3.0 @ 80 °F of Chloride Content 1,603 ppm.

Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On Location.

Remarks: \_\_\_\_\_



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Kennedy & Mitchell, Inc.  
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Venohr Cedar Creek #1-987-2  
Well Name and No.

1  
DST No.

## TEST PARAMETERS

RECORDER NUMBER	13617	HOLE SIZE	7.875 IN
RECORDER DEPTH	5110 FT	TEMPERATURE	595 DEG R
ELEVATION	4266 FT (KB)	COMPRESSIBILITY	.85
DATUM	-844 FT	1ST FLOW TIME	14 MIN
PAY THICKNESS	4 FT	1ST SHUT-IN TIME	58 MIN
VISCOSITY	.015 CP	2ND FLOW TIME	58 MIN
POROSITY FRACTION	.20	2ND SHUT-IN TIME	119 MIN

## CALCULATIONS

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI) .....	1127.5
NUMBER OF POINTS USED .....	11
SLOPE (PSI SQUARED/LOG CYCLE) .....	23623.4
EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI) .....	1127.2
NUMBER OF POINTS USED .....	7
SLOPE (PSI SQUARED/LOG CYCLE) .....	20056.4
AVERAGE PRODUCTION RATE (MCF/DAY) .....	684.00
TRANSMISSIBILITY (MD.-FT./CP.) .....	28234.99
FLOW CAPACITY (MD.-FT.) .....	423.52
PERMEABILITY (MD.) .....	105.8812
PRODUCTIVITY INDEX (MCF/DAY/PSI) .....	.705
ESTIMATED DAMAGE RATIO (EDR) .....	13.8
SKIN FACTOR (S) .....	63.5
PRESSURE DROP DUE TO SKIN (PSI) .....	722.2
APPROXIMATE RADIUS OF INVESTIGATION (FT.) .....	224.4
DRAWDOWN FACTOR (%) .....	.0
POTENTIOMETRIC SURFACE (FT.) .....	1782.4

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