Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Pendleton Land & Exploration, Inc. Lease & Well No. Kramer #1

Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 8989

Date 1/14/81 Sec. 31 Twp. 24S Range 29W County Gray State Kansas

Test Approved by Bill G. Ree Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 4530 ft. to 4600 ft. Total Depth 5083 ft.

Packer Depth 4525 ft. Size 6 3/4 in. Packer Depth 4530 ft. Size 6 3/4 in.

Packer Depth 4600 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set 4530-4600

Top Recorder Depth (Inside) - ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) - ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth 5081 ft. Recorder Number - Cap. -

Drilling Contractor Silverado Rig #8 Drill Collar Length 460 I. D. 2.2 in.

Mud Type - Viscosity - Weight Pipe Length - I. D. - in.

Weight - Water Loss - cc. Drill Pipe Length - I. D. - in.

Chlorides - P.P.M. Test Tool Length 28 ft. Tool Size - in.

Jars: Make WTC Serial Number 420 Anchor Length 70 - 483 ft. Size 5.5 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 tail pipe in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4.5 in

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Packer failure. Tried to set 3 times MISRUN

Time Set Packer(s) 9:50 A.M. ~~P.M.~~ Time Started Off Bottom - A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure ..... (A) 2362 P.S.I.

Initial Flow Period ..... Minutes - (B) - P.S.I. to (C) - P.S.I.

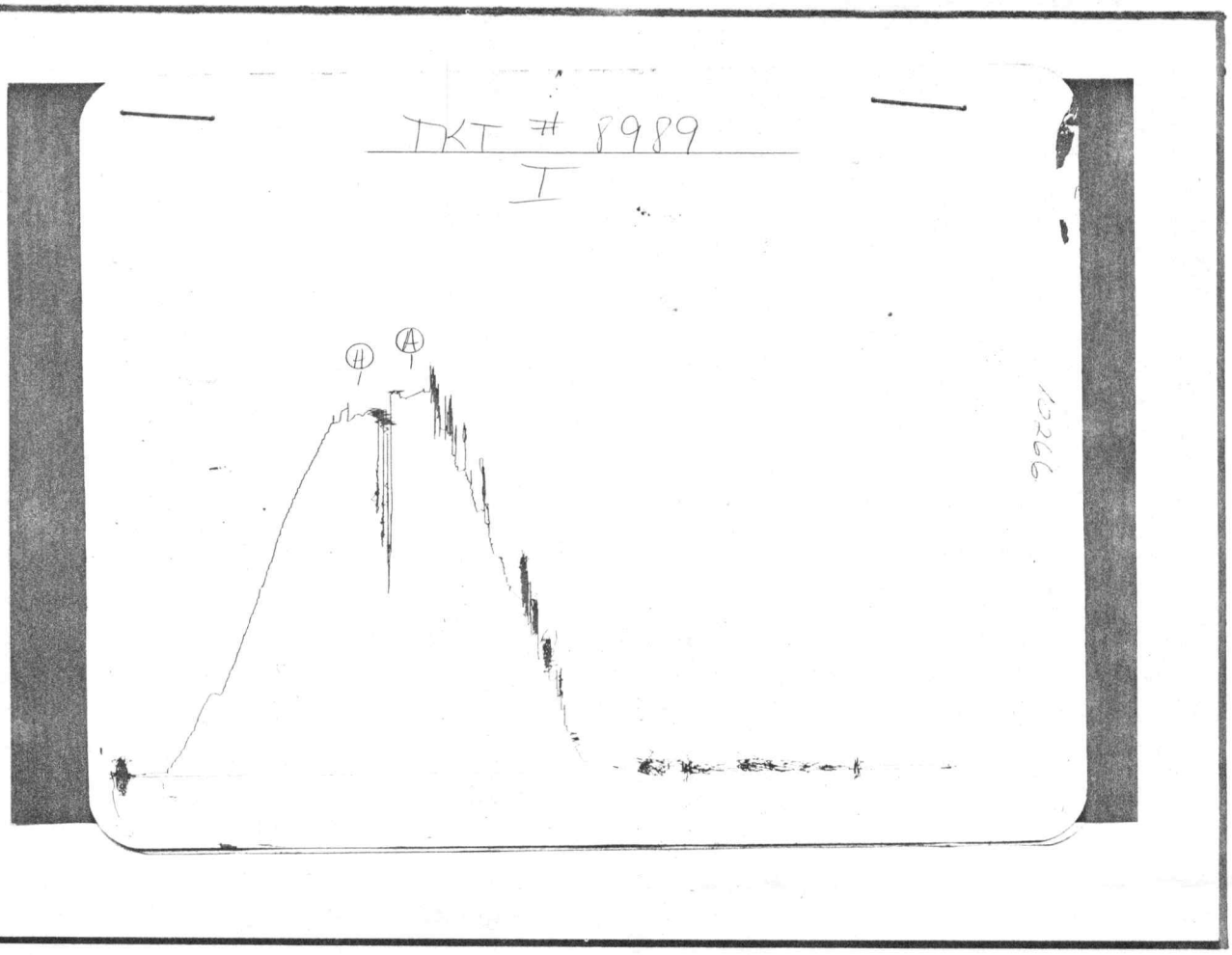
Initial Closed In Period ..... Minutes - (D) - P.S.I.

Final Flow Period ..... Minutes - (E) - P.S.I. to (F) - P.S.I.

Final Closed In Period ..... Minutes - (G) - P.S.I.

Final Hydrostatic Pressure ..... (H) 2257 P.S.I.

WT



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	-	2362	PSI
(B)	First Initial Flow Pressure	-	-	PSI
(C)	First Final Flow Pressure	-	-	PSI
(D)	Initial Closed-in Pressure	-	-	PSI
(E)	Second Initial Flow Pressure	-	-	PSI
(F)	Second Final Flow Pressure	-	-	PSI
(G)	Final Closed-in Pressure	-	-	PSI
(H)	Final Hydrostatic Mud	-	2257	PSI

COMPANY Pendleton Land & Exploration, Inc. LEASE AND WELL NO. Kramer #1 SEC. 31 TWP. 24S RGE. 29W TEST NO. 1 DATE 1/

Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Pendleton Land & Exploration, Inc. Lease & Well No. Kramer #1

Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 8990

Date 1/15/81 Sec. 31 Twp. 24S Range 29W County Gray State Kansas

Test Approved by Bill G Ree Western Representative Darrell Claphan

Formation Test No. 2 Interval Tested from 4489 ft. to 4604 ft. Total Depth 5083 ft.

Packer Depth 4484 ft. Size 6 3/4 in. Packer Depth 4489 ft. Size 6 3/4 in.

Packer Depth 4604 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4593 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4597 ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth 5081 ft. Recorder Number - Cap.

Drilling Contractor Silverado Rig #8 Drill Collar Length 466 tail I. D. 2.2 in.

Mud Type Drispac Viscosity 55 Weight Pipe Length - I. D. - in.

Weight - Water Loss - cc. Drill Pipe Length - I. D. 3.8 in.

Chlorides - P.P.M. Test Tool Length 28 ft. Tool Size 4.5 in.

Jars: Make WTC Serial Number 420 Anchor Length 12 tail 115 between Size 5.5 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in

Main Hole Size 7 7/8 in. Tool Joint Size 4.5 in

Blow: Initial flow period strong blow immediately.

Recovered 1600 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Packers held for approx. seven minutes on first flow. MISRUN

Time Set Packer(s) 1:15 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 ~~A.M.~~ P.M. Maximum Temperature -

Initial Hydrostatic Pressure ..... (A) 2250 P.S.I.

Initial Flow Period ..... Minutes (B) -- P.S.I. to (C) -- P.S.I.

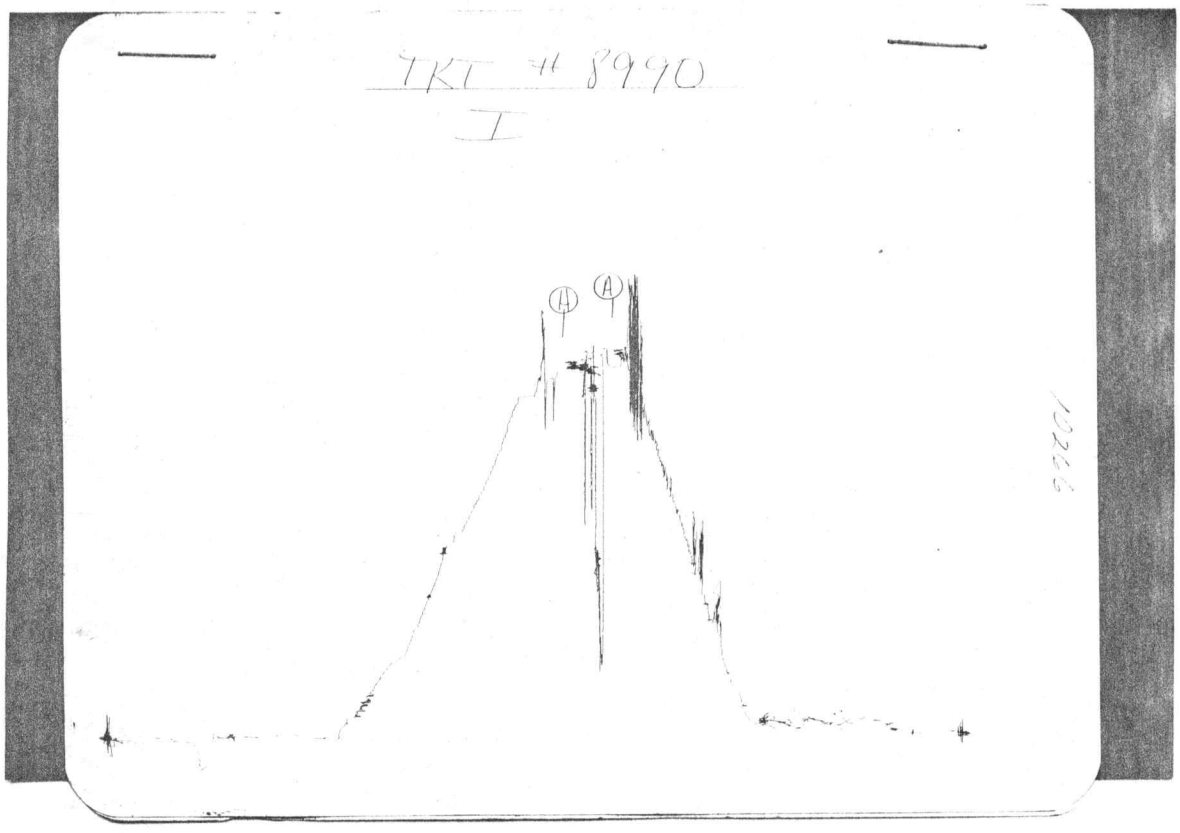
Initial Closed In Period ..... Minutes (D) -- P.S.I.

Final Flow Period ..... Minutes (E) -- P.S.I. to (F) -- P.S.I.

Final Closed In Period ..... Minutes (G) -- P.S.I.

Final Hydrostatic Pressure ..... (H) 2217 P.S.I.

COMPANY Pendleton Land & Exploration, Inc. LEASE AND WELL NO. Kramer #1 SEC. 31 TWP. 24S RGE. 29W TEST NO. 2 DATE 1/1



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	-	2250	PSI
(B)	First Initial Flow Pressure	-	-	PSI
(C)	First Final Flow Pressure	-	-	PSI
(D)	Initial Closed-in Pressure	-	-	PSI
(E)	Second Initial Flow Pressure	-	-	PSI
(F)	Second Final Flow Pressure	-	-	PSI
(G)	Final Closed-in Pressure	-	-	PSI
(H)	Final Hydrostatic Mud	-	2217	PSI

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Pendleton Land & Exploration, Inc. Lease & Well No. Kramer #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 8991

Date 1/15/81 Sec. 31 Twp. 24S Range 29W County Gray State Kansas

Test Approved by Bill G Ree Western Representative Darrell Claphan

Formation Test No. 3 Interval Tested from 4846 ft. to 5083 ft. Total Depth 5083 ft.

Packer Depth 4841 ft. Size 6 3/4 in. Packer Depth 4846 ft. Size - in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4808 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4812 ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drilling Rig #8 Drill Collar Length 183 I. D. 2.2 in.

Mud Type Premix Viscosity 55 Weight Pipe Length - I. D. - in.

Weight 8.8 Water Loss 9.2 cc. Drill Pipe Length 4818 I. D. 3.8 in.

Chlorides 5000 P.P.M. Test Tool Length 28 ft. Tool Size 4.5 in.

Jars: Make WTC Serial Number 420 Anchor Length 31 DP 23 ft. Size 5.5 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4.5 in.

Blow: Initial flow period weak blow building to good then to strong after 15 minutes 2 inches to 10 inches to 15 inches. Final flow period strong blow throughout - 15 inches.

Recovered 1980 ft. of gas in pipe

Recovered 40 ft. of slightly oil & gas cut mud gravity 32° API @ 66°F

Recovered 60 ft. of oil & gas cut mud

Recovered 180 ft. of frothy free oil

Recovered 840 ft. of gassy free oil

Remarks:

Time Set Packer(s) 11:05 ~~A.M.~~ P.M. Time Started Off Bottom 2:20 A.M. ~~P.M.~~ Maximum Temperature 127

Initial Hydrostatic Pressure ..... (A) 2437 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 214* P.S.I. to (C) 418* P.S.I.

Initial Closed In Period ..... Minutes 39 (D) 1274 P.S.I.

Final Flow Period ..... Minutes 50 (E) 446 P.S.I. to (F) 542 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1098 P.S.I.

Final Hydrostatic Pressure ..... (H) 2297 P.S.I.

WTC

WESTERN TESTING CO., INC.
Pressure Data

Date 1/15/81 Test Ticket No. 8991

Recorder No. 10266 Capacity 4650 Location 4808 Ft.

Clock No. - Elevation - Well Temperature 127 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2437	P.S.I.
B	First Initial Flow Pressure	214*	P.S.I.
C	First Final Flow Pressure	418*	P.S.I.
D	Initial Closed-in Pressure	1274	P.S.I.
E	Second Initial Flow Pressure	446	P.S.I.
F	Second Final Flow Pressure	542	P.S.I.
G	Final Closed-in Pressure	1098	P.S.I.
H	Final Hydrostatic Mud	2297	P.S.I.

	Time Given	Time Computed
Open Tool	11:05P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	39 Mins.
Second Flow Pressure	60 Mins.	50 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

*Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	214*
P 2 5	195*
P 3 10	312*
P 4 15	319*
P 5 20	352*
P 6 25	352*
P 7 30	418*
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 13 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	418*
3	654
6	988
9	1158
12	1181
15	1198
18	1207
21	1219
24	1228
27	1237
30	1247
33	1265
36	1272
39	1274

Second Flow Pressure
Breakdown: 10 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	446
5	430
10	430
15	441
20	455
25	469
30	484
35	495
40	512
45	523
50	542

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	542
3	652
6	783
9	876
12	921
15	967
18	993
21	1012
24	1028
27	1040
30	1051
33	1060
36	1067
39	1074
42	1079
45	1084
48	1088
51	1091
54	1093
57	1097
60	1098

TKT # 8991

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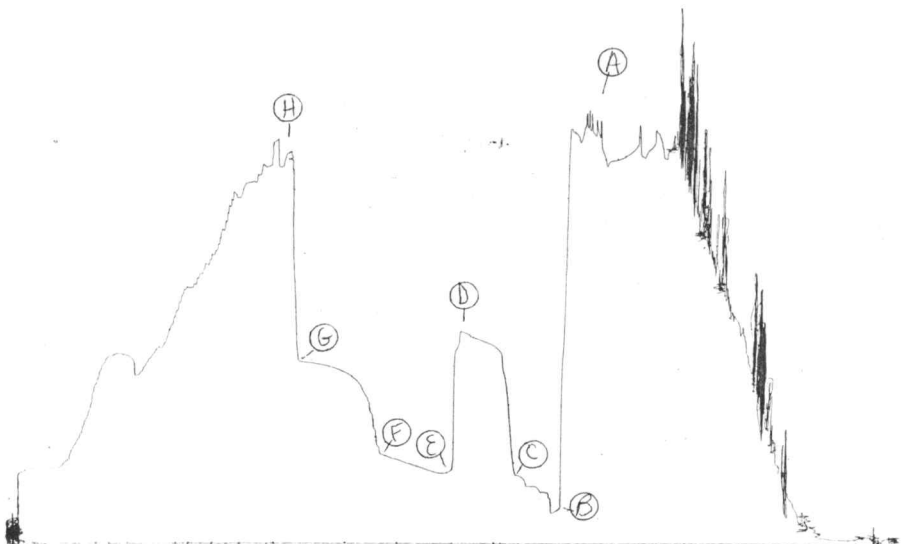

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