

ORIGINAL

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Kansas City "B" Type Test Conventional Date November 10, 1993
Anchor Length and Size 40' X 4 1/2" OD-Perf. Total Depth 4670'
Packer Depths 4625' & 4630' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

Lengths: Tool 73' D. P. 3990' ID 3.8" Wt. P. _____ ID _____ D. C. 619' ID 2.25"
Mud Type Chemical Vls. 44 Wt. 9.0 Wtr. Loss 9.6 Cl. 800 ppm

Recorders: Depth 4662' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 4668' Make Kuster Cap. 6800 Ser. No. 10217 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>6:30 A.M.</u>	Initial Hydrostatic <u>2192</u> psi	KCC MAR 11 CONFIDENTIAL
Initial Flow <u>30</u> Min.	IFP <u>80</u> psi to <u>116</u> psi	
Initial Shut-in <u>59</u> Min.	ISIP <u>1090</u> psi	
Final Flow <u>61</u> Min.	FFP <u>145</u> psi to <u>206</u> psi	
Final Shut-in <u>120</u> Min.	FSIP <u>1128</u> psi	
Tool off Bottom @ <u>11:00 A.M.</u>	Final Hydrostatic <u>2180</u> psi	Temp. <u>123°F.</u>

Blow: Strong on I.F.P., Fair increasing to strong on F.F.P.

Gas to surface in 54 min. into F.F.P. Too small to measure.

Recovery: 400' Total Fluid.
130' Mud Cut Oil
90' Mud & Oil Cut Water.
180' Oil Cut Salt Water.

RELEASED

MAY 24 1995

FROM CONFIDENTIAL

Gas Flow: Too small to measure.

Sampler Data:

Pressure 195 PSI
Gas Volume 0.07 cu. ft.
Total Fluid 1800 cc
Oil 200 cc
API Gravity _____ @ _____ °F
Mud 400 cc
Water 1200 cc
Cl. 70,000 PPM
RW .04 @ 123 °F

Remarks:

Tester Butch Young Witnessed by: John Shilling

SEC. 13

TWP. 31S

RGE. 35W

COUNTY Stevens

STATE Kansas

TICKET NO. 3589

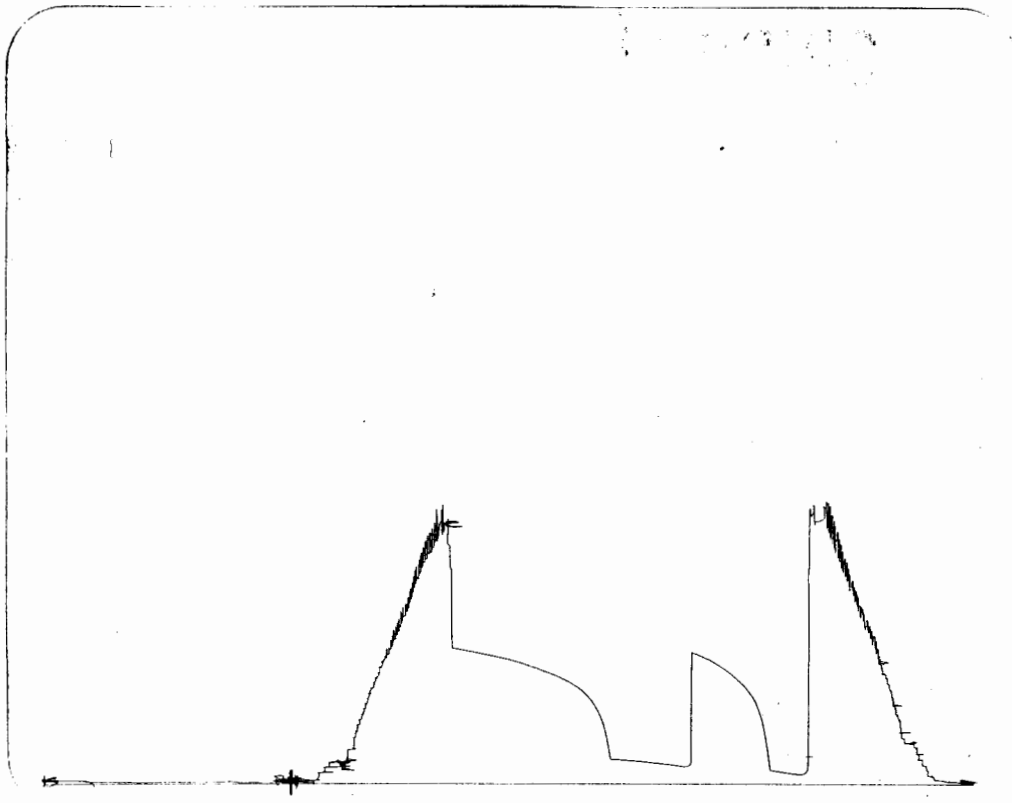
Anadarko Petroleum Corporation
OPERATOR

Hanke "A" #4
WELL NAME & NO.

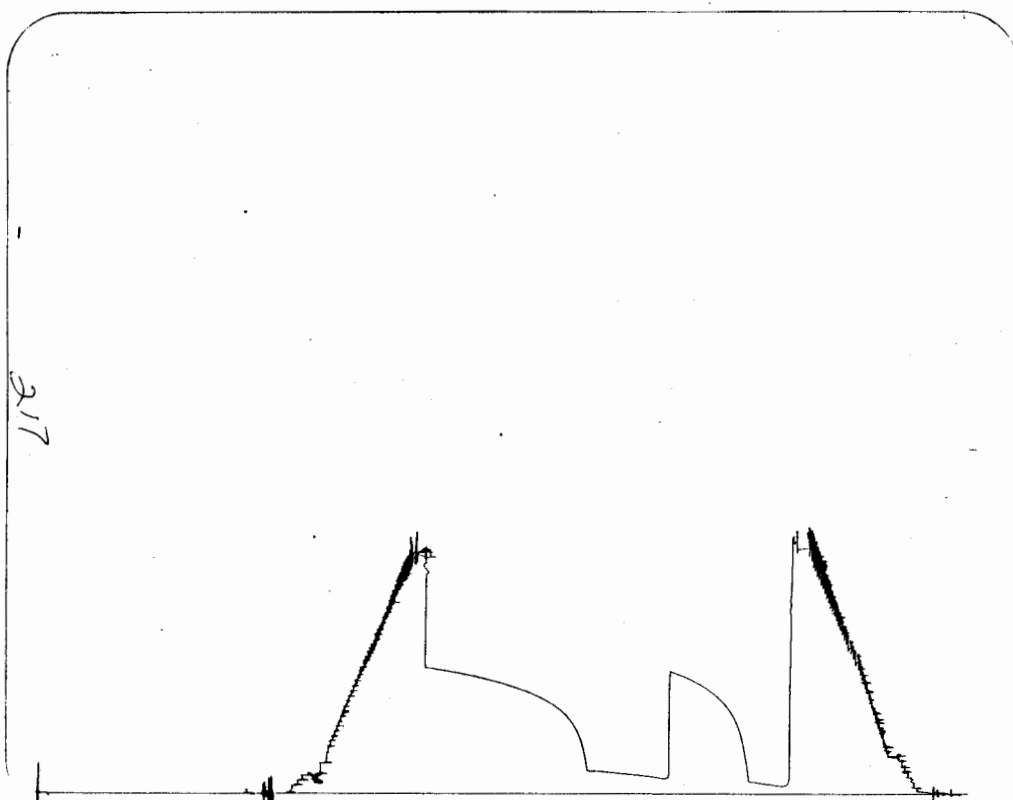
API #15-189-21590
21590

TEST INTERVAL

4630' - 4670'



Initial Hydrostatic _____ 2192 _____ psi
 IFP _____ 80 _____ psi to _____ 116 _____ psi
 ISIP _____ 1090 _____ psi
 FFP _____ 145 _____ psi to _____ 206 _____ psi
 FSIP _____ 1128 _____ psi
 Final Hydrostatic _____ 2180 _____ psi



PRESSURE BREAK DOWN

Test Ticket No.	3589	Recorder No.	10269	Capacity	6500	Rec. Depth	4662'
				Time Given	Time Computed		
Initial Flow Pressure	80	to	116	30	30		
Initial Closed-In Pressure	1090			60	59		
Final Flow Pressure	145	to	206	60	61		
Final Closed-In Pressure	1128			120	120		
Initial Hydrostatic Press.	2192		Final Hydrostatic Press.	2180		Temp.	123°F.

[illegible]

Initial Closed-in Press. Minutes	Press.
0	116
3	354
6	512
9	616
12	700
15	745
18	787
21	822
24	858
27	887
30	916
33	941
36	961
39	983
42	1003
45	1022
48	1041
51	1054
54	1067
57	1080
59.98	1090
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Minutes	Press. Press.
0	---
5	145
10	151
15	158
20	164
25	170
30	177
35	183
40	190
45	196
50	200
55	203
60	206
61.55	206
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Minutes	Final Closed-In Press.
0	206
3	
6	503
9	
12	651
15	
18	732
21	
24	793
27	
30	832
33	
36	870
39	
42	896
45	
48	922
51	
54	951
57	
60	974
63	
66	993
69	
72	1012
75	
78	1032
81	
84	1048
87	
90	1064
93	
96	1077
99	
102	1090
105	
108	1102
111	
114	1115
117	
120	1128