PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P.O. BOX 1182
LIBERAL, Ks. 67901

Formation Morrow-Chester Type Test Bottom Hole w/Sampler Date July 25, 1985

Anchor Length and Size 190' 146'x6¼" & 44'x4½" Total Depth 6323'

Packer Depths 6127' & 6133' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub, Sample Chamber

Lengths: Tool 224' D. P. 5647' ID 3.8" Wt. P. ID D. C. 462' ID 2.25"

Mud Type Chemical Vis. 44 Wt. 9.1 Wtr. Loss 7.2 Cl. 1600 ppm

Recorders:

Depth 6154' Make Kuster Cap. 6500 Ser. No. 10269 Inside

Depth 6173' Make Kuster Cap. 6450 Ser. No. 10268 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ 8:35 P M. Initial Hydrostatic 3038 psi

Initial Flow 30 Min. IFP 96 psi to 90 psi

Initial Shut-in 59 Min. ISIP 1836 psi

Final Flow 60 Min. FFP 116 psi to 119 psi

Final Shut-in 117 Min. FSIP 1887 psi

Tool off Bottom @ 1:05 A M. Final Hydrostatic 2919 psi Temp. 142

Blow: Strong. Gas to surface 3 minutes into Final Flow.

Recovery: 150' Gas Cut Mud

Gas Flow: Gauged at 29 MCF/D through a 1/4" orifice at end of flow period.

Sampler Data:

Pressure 78 PSI

Gas .23 cu. ft.

Total Fluid 900 cc

Oil cc

Water cc

Mud 900 cc

Oil Gravity @ °F.

Gas/Oil Ratio

Remarks:

2100 PPM CL

554' FNL & 1,874' FEL
API 15-175-20,866

Tester R L Young Witnessed by: Billy Daugherty

DT-10 Liberal Office Machines

SEC. 8 | TWP. 34S | RGE. 34W | COUNTY Seward | STATE Kansas | TICKET NO. 2905

OPERATOR Petroleum Inc.

WELL NAME & NO. Woodman "C" #1

TEST # 1

TEST INTERVAL 6133' - 6323'

Ph. 316/624-7340
Mobile — 316/624-6247
Unit #935
DEAN'S TESTERS
P.O. Box 1182
Liberal, Kansas 67901

Company Petroleum Inc. **Well** Woodman "C" #1

Test # 1 **Interval** 6133' - 6323'

Method of Guage Merla 2'' Quick-Change Orifice Well Tester

Time	Guage	Orifice Size	Gas Volume MCF/D
Final Flow			
10 Minutes	1.5 P.S.I.	1/4"	11.02
20 Minutes	3.5 P.S.I.	1/4"	17.1
30 Minutes	4.5 P.S.I.	1/4"	19.5
40 Minutes	7 P.S.I.	1/4"	25
50 Minutes	8 P.S.I.	1/4"	27
60 Minutes	9 P.S.I.	1/4"	29

Surface Choke 1" **Bottom Choke** 5/8"

Remarks: Gas to surface in 3 minutes.

Pressure Break Down

Test ticket no. 2905 Recorder no. 10269 Capacity 6500 Rec. Depth. 6154'

Initial Flow pressure 96 to 90

Initial Closed in pressure 1836

Final Flow pressure 116 to 119

Final Closed-in pressure 1887

Initial Hydrostatic pressure 3038 Final Hydrostatic press. 2919 Temp 142

Time	Given	Computed
	30	30
	60	59
	60	60
	120	117

Initial Flow Press.

Minutes	Press
0	96
5	96
10	87
15	87
20	87
25	90
30	90
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

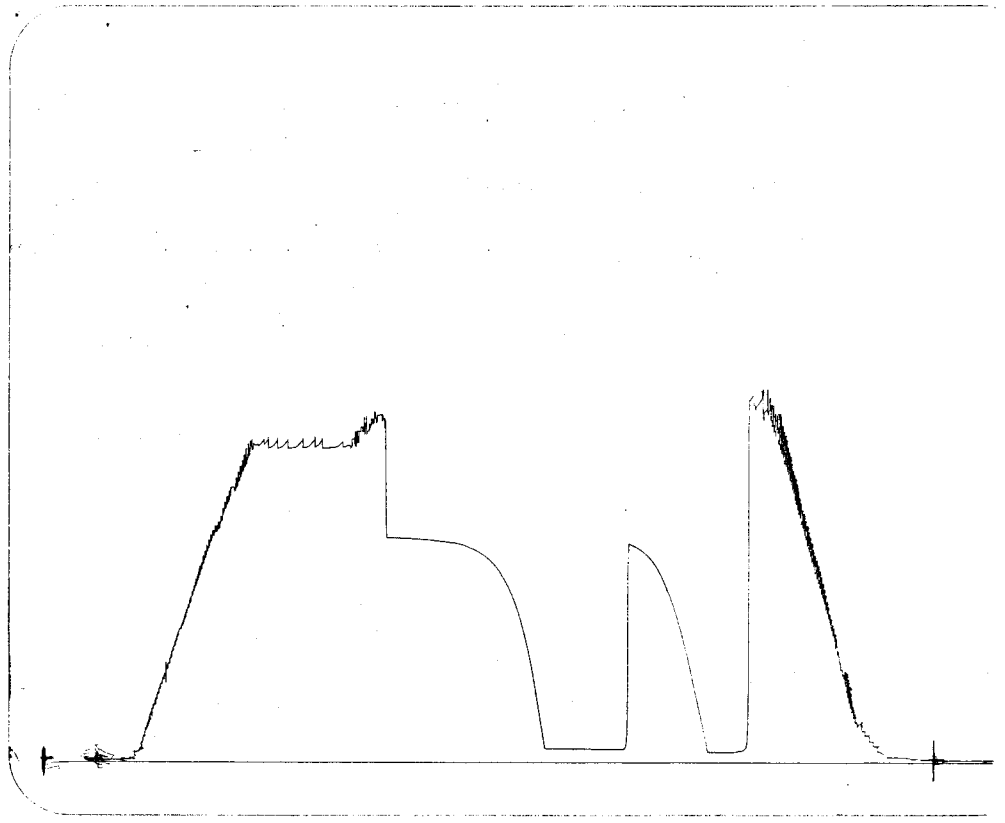
Minutes	Press
0	90
3	232
6	387
9	541
12	703
15	864
18	1003
21	1144
24	1263
27	1366
30	1450
33	1540
36	1607
39	1665
42	1707
45	1745
48	1771
51	1794
54	1813
57	1829
59~~60~~	1836
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

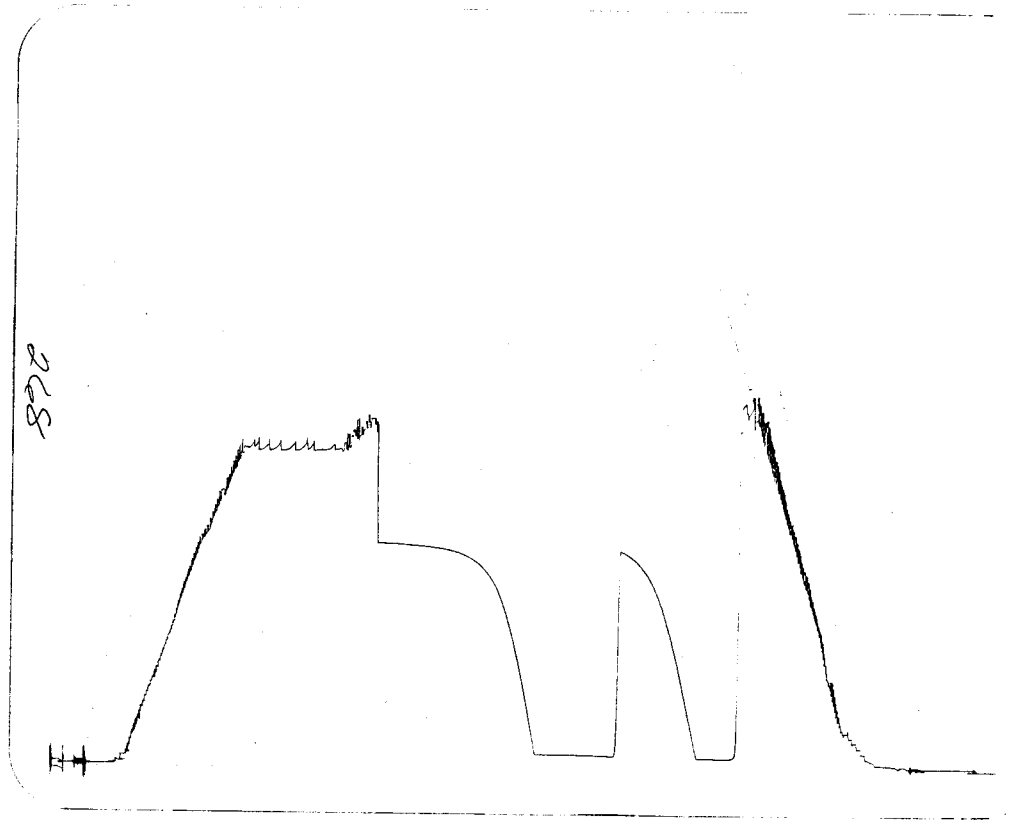
Minutes	Press
0	116
5	116
10	116
15	116
20	116
25	116
30	116
35	116
40	116
45	116
50	119
55	119
60	119
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	119
3	345
6	567
9	767
12	935
15	1090
18	1225
21	1340
24	1418
27	1495
30	1556
33	1610
36	1652
39	1691
42	1723
45	1749
48	1771
51	1787
54	1803
57	1819
60	1829
63	1839
66	1845
69	1848
72	1852
75	1858
78	1861
81	1868
84	1871
87	1871
90	1871
93	1874
96	1877
99	1877
102	1881
105	1881
108	1884
111	1884
114	1887
117	1887
120	----



Initial Hydrostatic	3038			psi
IFP	96	psi to	90	psi
ISIP	1836			psi
FFP	116	psi to	119	psi
FSIP	1887			psi
Final Hydrostatic	2919			psi



PHONE
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DEAN'S TESTERS INC.

P. O. BOX 182
LIBERAL, Ks. 67901

Formation Chester Sand Type Test Bottom Hole w/Sampler Date July 27, 1985

Anchor Length and Size 18' x 4½" Total Depth 6460'

Packer Depths 6436' & 6442' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub, Sample Chamber

Lengths: Tool 52' D. P. 5827 ID 3.8 Wt. P. ID D. C. 611 ID 2.25"

Mud Type Chemical Vis. 46 Wt. 8.9 Wtr. Loss 10.0 Cl. 2400 ppm

Recorders:

Depth 6453' Make Kuster Cap. 6500 Ser. No. 10269 Inside

Depth 6458' Make Kuster Cap. 6450 Ser. No. 10268 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ 12:05 A M. Initial Hydrostatic 3106 psi

Initial Flow 30 Min. IFP 58 psi to 54 psi

Initial Shut-In 57 Min. ISIP 64 psi

Final Flow 60 Min. FFP 58 psi to 58 psi

Final Shut-In 120 Min. FSIP 119 psi

Tool off Bottom @ 4:35 A M. Final Hydrostatic 3080 psi Temp. 148

Blow: Weak on Initial Flow. None on Final.

Recovery: 30' Mud

Gas Flow:

Sampler Data:

Pressure 28 PSI

Gas None cu. ft.

Total Fluid 1600 cc

Oil cc

Water cc

Mud 1600 cc

Oil Gravity @ °F.

Gas / Oil Ratio

Remarks:

2700 PPM CL

554' FNL & 1,874' FEL
API 15-175-20,866

Tester R L Young Witnessed by: Bob Posey

DT-10 Liberal Office Machines

SEC. 8 TWP. 34S RGE. 34W

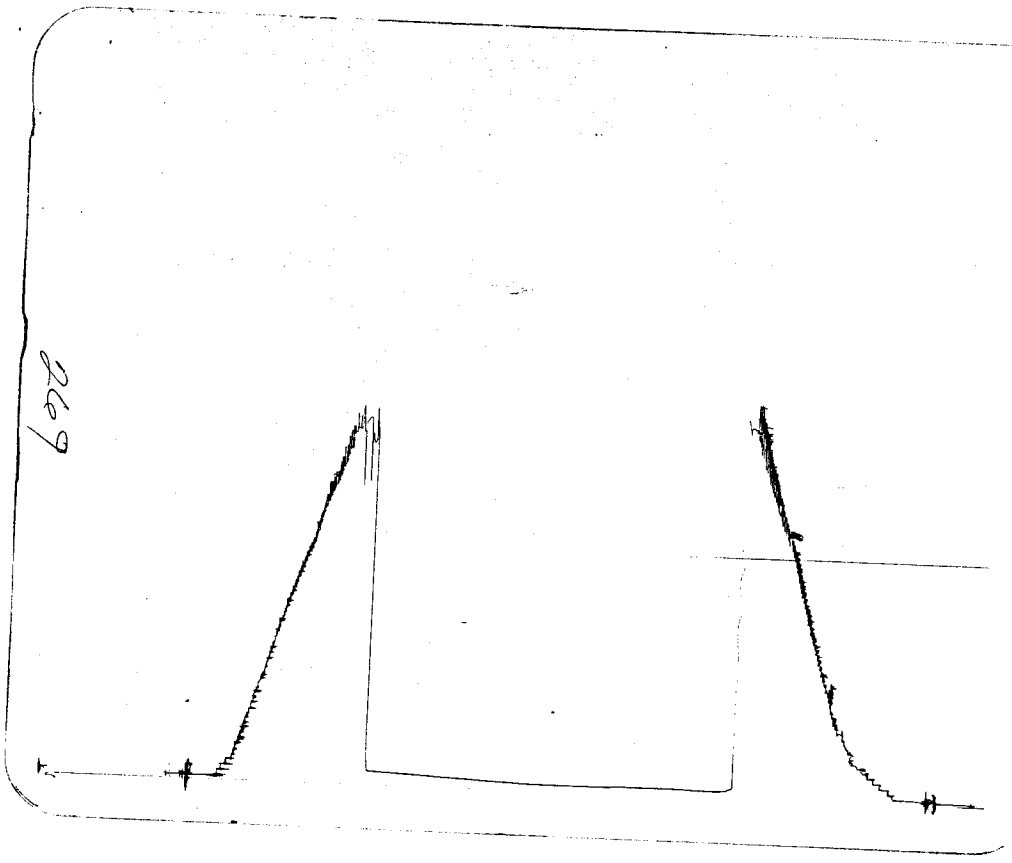
OPERATOR Petroleum Inc.

WELL NAME & NO. Woodman C #1

COUNTY Seward STATE Kansas

TEST # 2

TICKET NO. 6460' TEST INTERVAL 6442' - 6460'



Initial Hydrostatic 3106 psi

IFP 58 psi to 54 psi

ISIP 64 psi

FFP 58 psi to 58 psi

FSIP 119 psi

Final Hydrostatic 3080 psi