

PHONE  
316 / 824-7340

# DEAN'S TESTERS INC.

P. O. BOX 1182  
LIBERAL, Ks. 67901

SEC. 29  
TWP. 32S  
RGE. 42W  
COUNTY Morton  
STATE Kansas  
TICKET NO. 3173

Hawkins Oil & Gas, Inc.  
OPERATOR  
Smith #1-29  
WELL NAME & NO.  
TEST #  
4939' - 4966'  
TEST INTERVAL

Formation Morrow Type Test Conventional Date June 16, 1987  
Anchor Length and Size 27' X 4 1/2" OD-Perf. Total Depth 4966'  
Packer Depths 4934' & 4939' Below Straddle \_\_\_\_\_ Choke Size Bottom 5/8" Surface 1/4"  
Equipment Run 2 Packers, Jars, Sampler, Safty joint, Circ. sub.

Lengths: Tool 60' D. P. 4379' ID 3.8" Wt. P. \_\_\_\_\_ ID \_\_\_\_\_ D. C. 551' ID 2.25"  
Mud Type Chemical Vis. 42 Wt. 9.1 Wtr. Loss 8.4 Cl. 2,600 ppm

**Recorders:**  
Depth 4956' Make Kuster Cap. 6400 Ser. No. 13373 Inside  
Depth 4964' Make Kuster Cap. 6450 Ser. No. 6064 Outside  
Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

**Pressures:**  
Tool on Bottom @ 4:30 AM. Initial Hydrostatic 2354 psi  
Initial Flow 32 Min. IFP 74 psi to 125 psi  
Initial Shut-in 60 Min. ISIP 961 psi  
Final Flow 63 Min. FFP 170 psi to 251 psi  
Final Shut-in 120 Min. FSIP 970 psi  
Tool off Bottom @ 9:00 AM. Final Hydrostatic 2345 psi Temp. 128

**Blow:** Weak increasing slightly on both flow periods.

**Recovery:** 520' Total Fluid. (2.23 bbl.)  
90' Mud (0.39 bbl.)  
430' Salt Water (1.84 bbl.)

### Gas Flow:

**Sampler Data:**  
Pressure 120 PSI  
Gas 0.02 cu. ft.  
Total Fluid 1600 cc  
Oil -- cc  
Water 900 24,000 PPM Cl. cc  
Mud 700 cc  
Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.  
Gas/Oil Ratio \_\_\_\_\_

**Remarks:**  
Rw. -.10 @ 128 F.

Tester Bill Young Witnessed by: C.E. Biffle

### Pressure Break Down

Job ticket no. 3173 Recorder no. 13373 Capacity 6400 Rec. Depth. 4956'

	Time	Given 30	Computed 32
Initial Flow pressure <u>74</u> to <u>125</u>			
Initial Closed in pressure <u>961</u>		<u>60</u>	<u>60</u>
Final Flow pressure <u>170</u> to <u>251</u>		<u>60</u>	<u>63</u>
Final Closed-in pressure <u>970</u>		<u>120</u>	<u>120</u>
Initial Hydrostatic pressure <u>2354</u>			
Final Hydrostatic press. <u>2345</u>			
			Temp <u>128</u>

#### Initial Flow Press.

Minutes	Press
0	--
5	74
10	77
15	83
20	93
25	106
30	119
<del>32</del> 35	125
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

#### Initial Closed in Press.

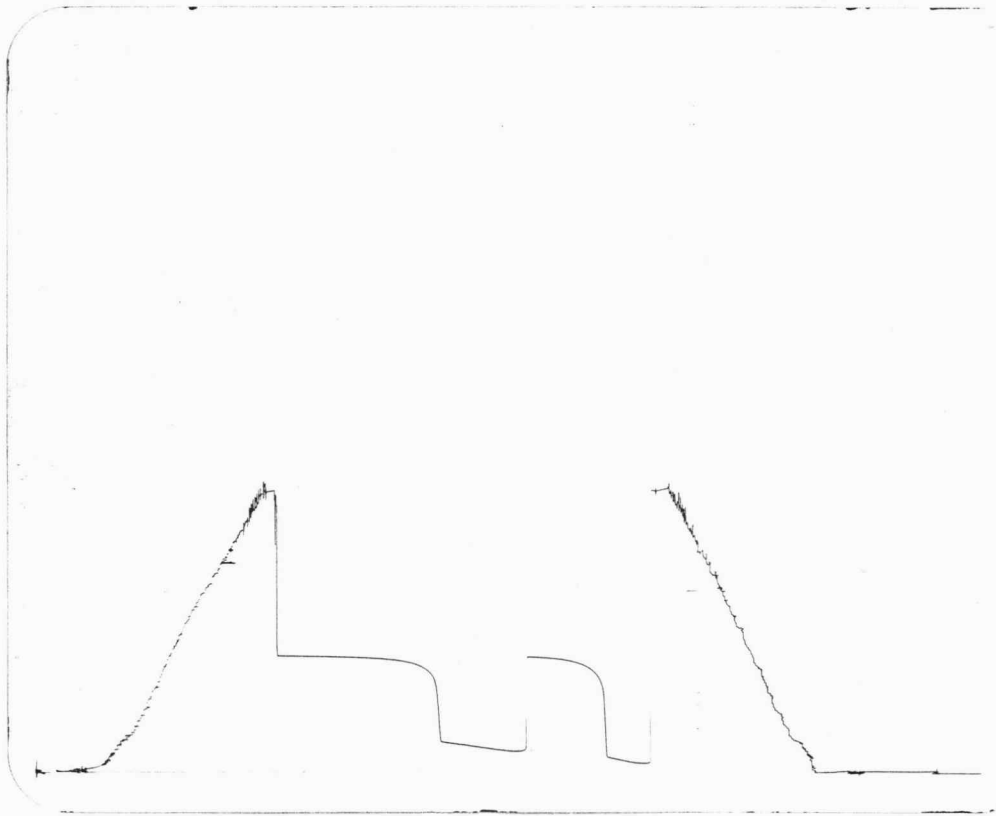
Minutes	Press
0	125
3	712
6	793
9	838
12	864
15	887
18	903
21	916
24	925
27	932
30	938
33	941
36	945
39	948
42	951
45	954
48	958
51	961
54	961
57	961
60	961
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

#### Final Flow Press

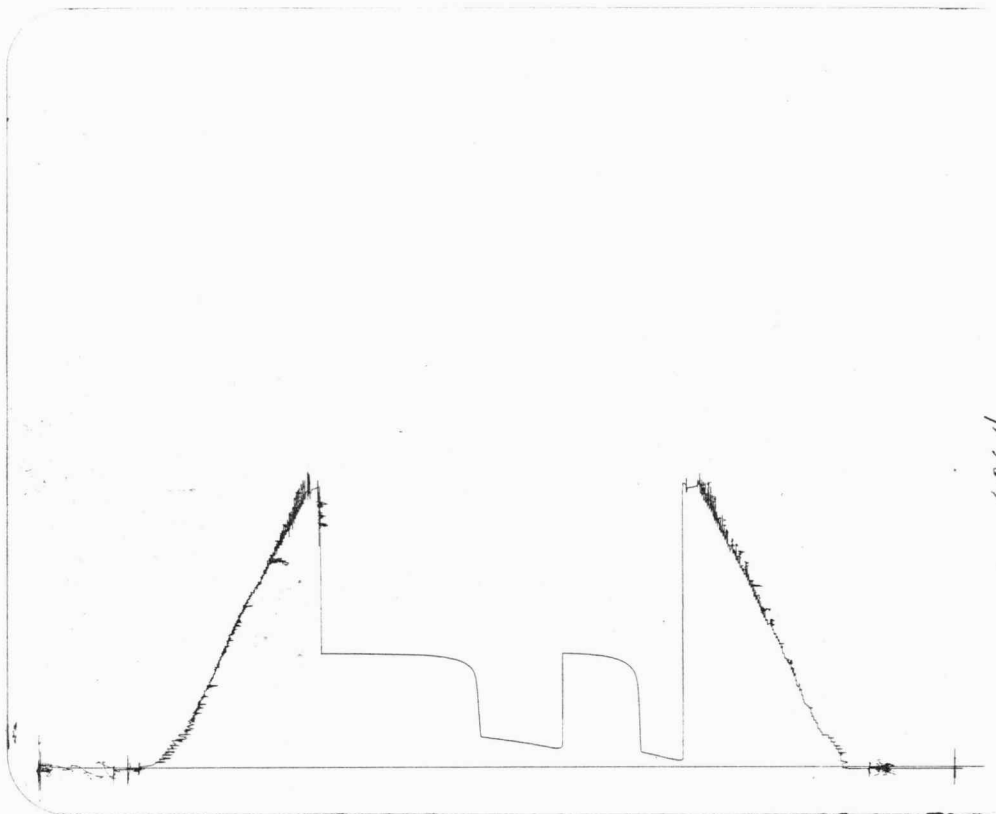
Minutes	Press
0	--
5	170
10	170
15	177
20	183
25	190
30	200
35	209
40	216
45	222
50	229
55	235
60	245
<del>63</del> 63	251
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

#### Final Closed in Press.

Minutes	Press
0	251
3	690
6	800
9	841
12	867
15	887
18	900
21	909
24	919
27	925
30	932
33	938
36	941
39	945
42	948
45	951
48	951
51	954
54	954
57	958
60	958
63	
66	961
69	
72	961
75	
78	961
81	
84	964
87	
90	964
93	
96	964
99	
102	967
105	
108	967
111	
114	967
117	
120	970



Initial Hydrostatic \_\_\_\_\_ 2354 \_\_\_\_\_ psi  
 IFP \_\_\_\_\_ 74 \_\_\_\_\_ psi to \_\_\_\_\_ 125 \_\_\_\_\_ psi  
 ISIP \_\_\_\_\_ 961 \_\_\_\_\_ psi  
 FFP \_\_\_\_\_ 170 \_\_\_\_\_ psi to \_\_\_\_\_ 251 \_\_\_\_\_ psi  
 FSIP \_\_\_\_\_ 970 \_\_\_\_\_ psi  
 Final Hydrostatic \_\_\_\_\_ 2345 \_\_\_\_\_ psi



6064