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SEP 11 1974

U. S. G. S.

HYDROSTATIC PRESSURE TEST - B.O.P.'s

Mesa Oil Corp. - Nash Unit #1 13-23-29

September 3, 1974

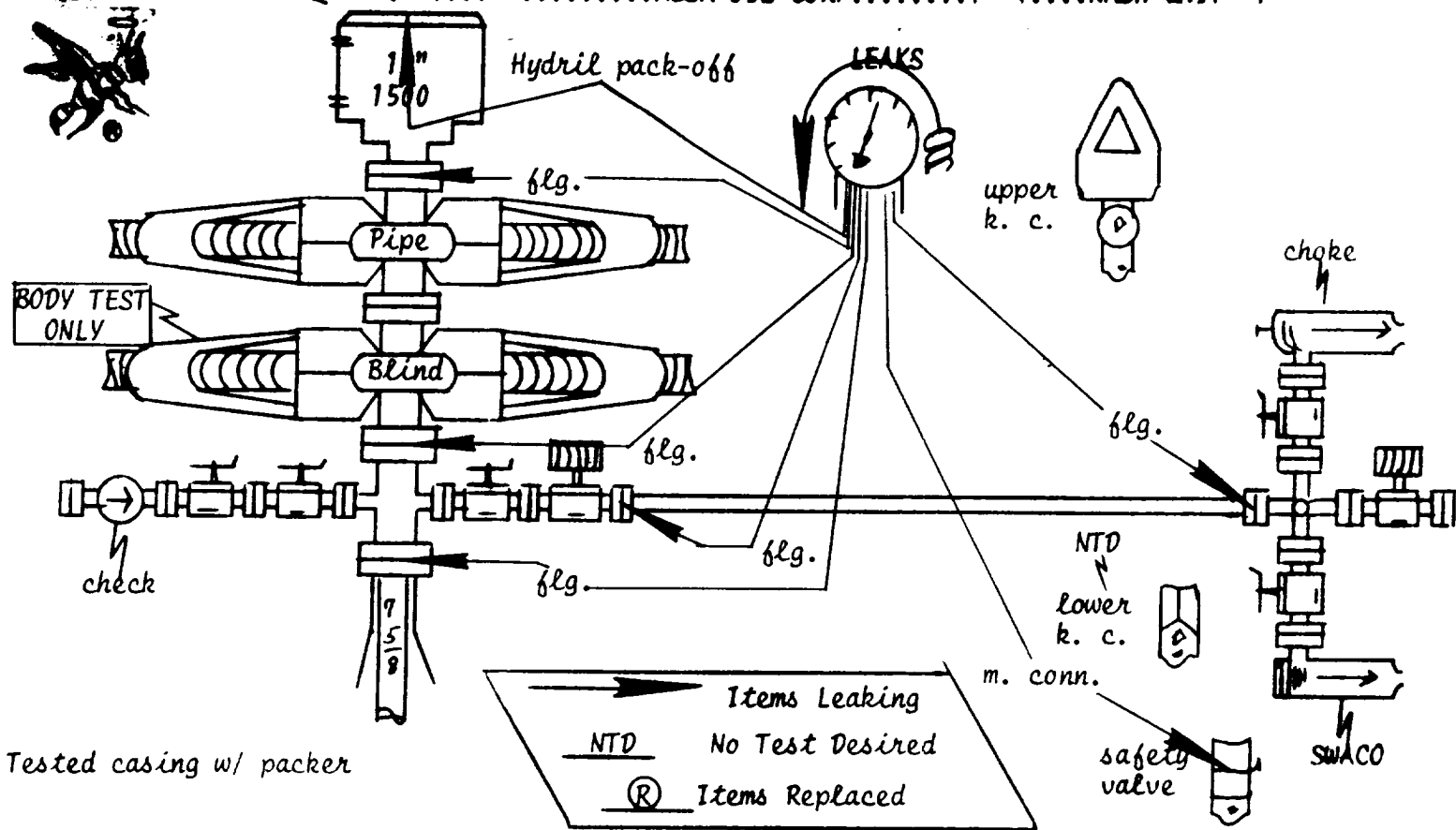
by

Yellow Jacket Tools and Services, Inc.

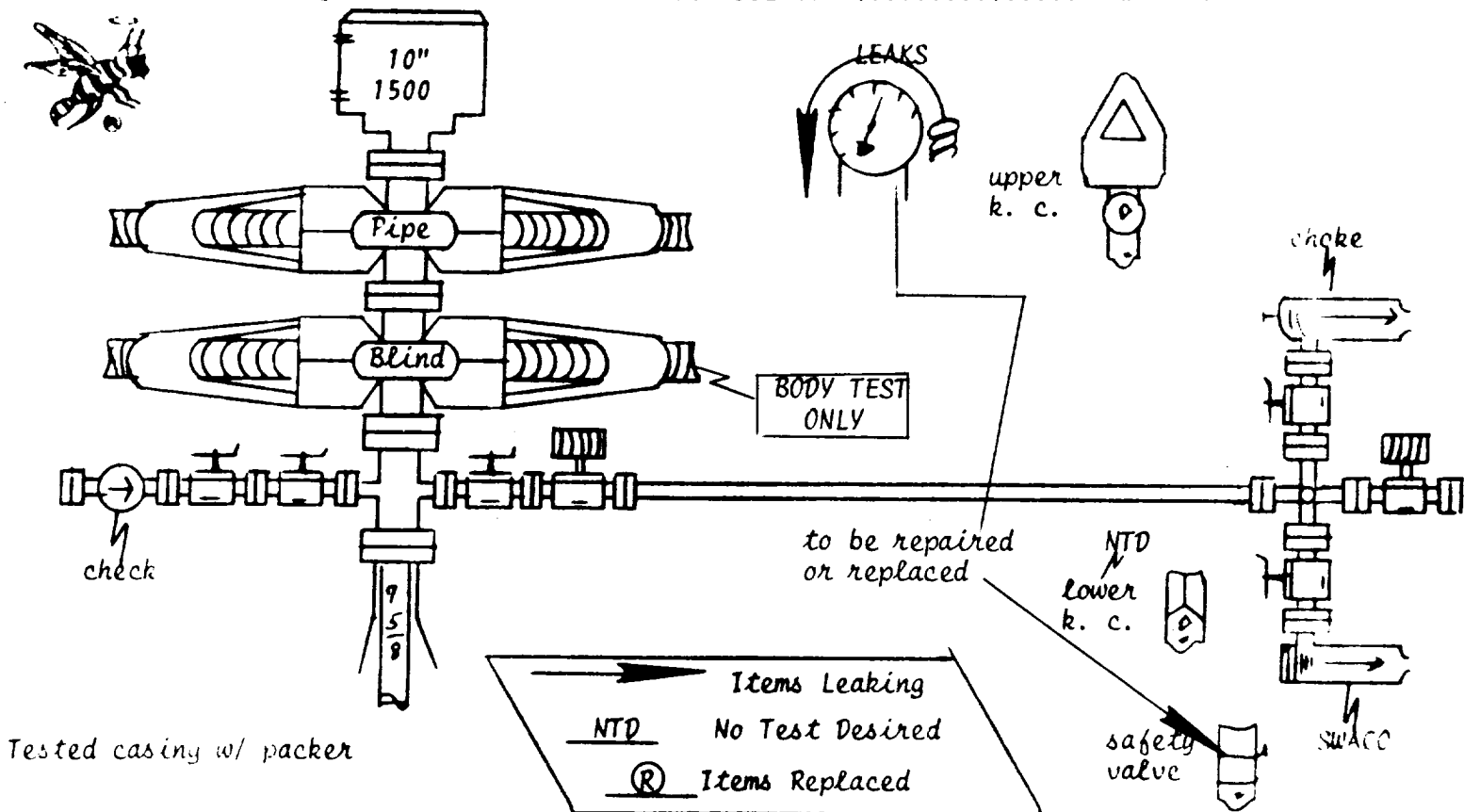
Odessa, Texas

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cc: U. S. G. S.



Items Leaking DURING Testing 9/3/74



Items Leaking at the CONCLUSION of Testing 9/3/74

September 5, 1974

Mesa Oil Corp.

Amarillo, Texas

Attn: Drilling Dept.

RE: BOP Test - Your Nash Unit #1

Gentlemen:

We made a hydrostatic pressure test to captioned blowout control equipment on September 3, 1974, and wish to advise the following:

At the conclusion of testing:

Valve: Leak to middle connection of drill pipe safety valve - to be repaired or replaced.

Items of the blowout control equipment from top of test packer landed in top of casing up through Hydril were tested to 2200# with separate tests being made at the pressure of 4000# to upper kelly cock, chokeline, choke-manifold, and to the valves and fittings off the bop stack proper. The pipe rams and approximately 20' of 7-5/8" casing were tested to the pressure of 3000#. Body test only to blind rams.

There were no visible leak to items tested at the conclusion of testing other than mentioned above.

A delay was observed to operation of blowout control equipment at the conclusion of testing - closing lines on Hydril hooked up backwards (corrected as needed). Closures were made using both closing unit pump and accumulators to the observed pressure of 1800# for test to ram type bops and 1200# for test to Hydril. Accumulators were pressured to 1800# at end of test. Control valves operated as indicated on closing unit manifold at end of test. Bop extentions were hooked up - rig coming out of hole.

No test desired to lower kelly cock.

Please contact us if you have any question concerning the above or any phase of this test.

We appreciate your business and we will welcome your suggestions as to how we may better serve you in the future.

Sincerely yours,

YELLOW JACKET TOOLS AND SERVICES, INC.

*Gordon Christopher*

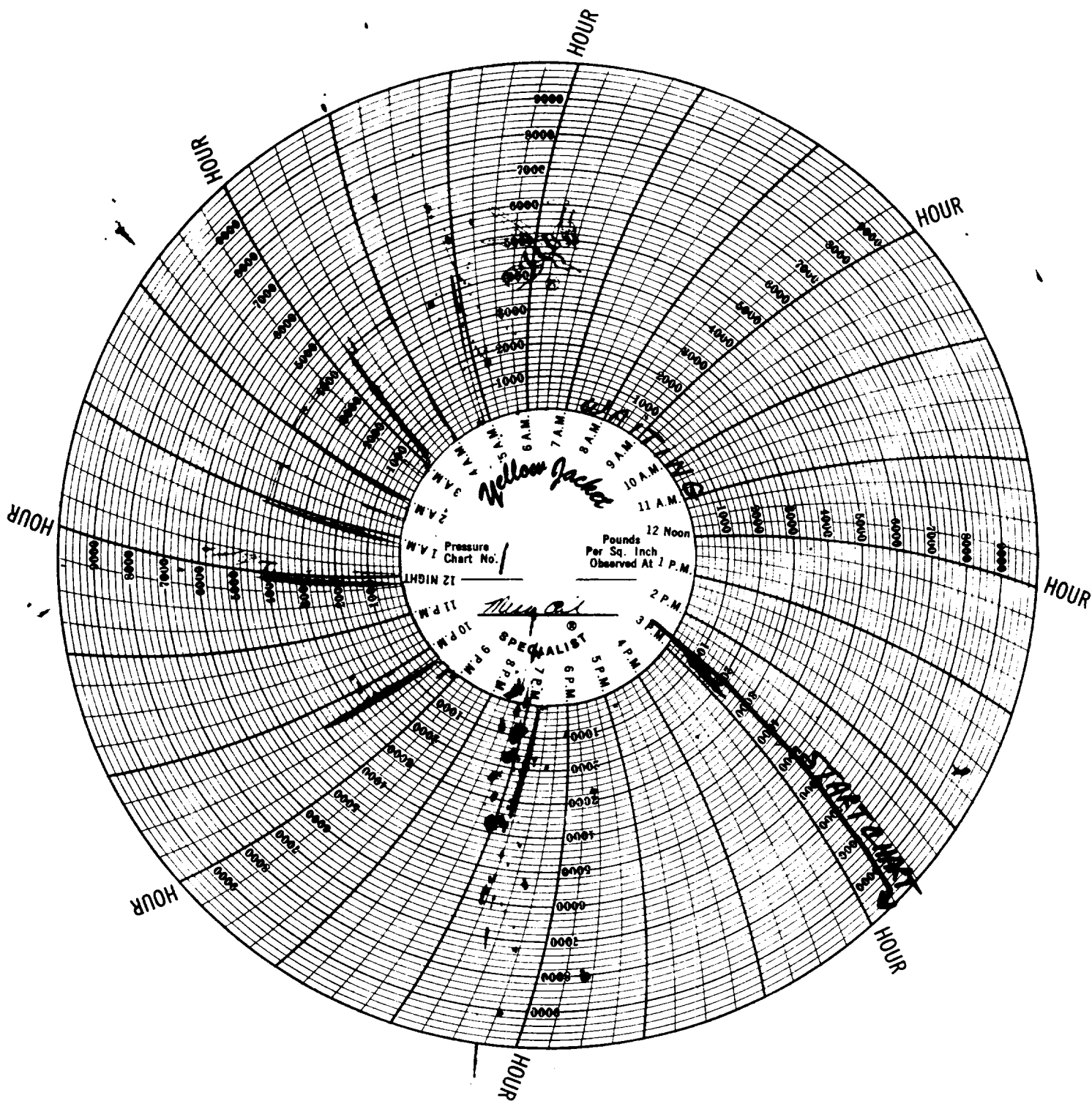
Gordon Christopher

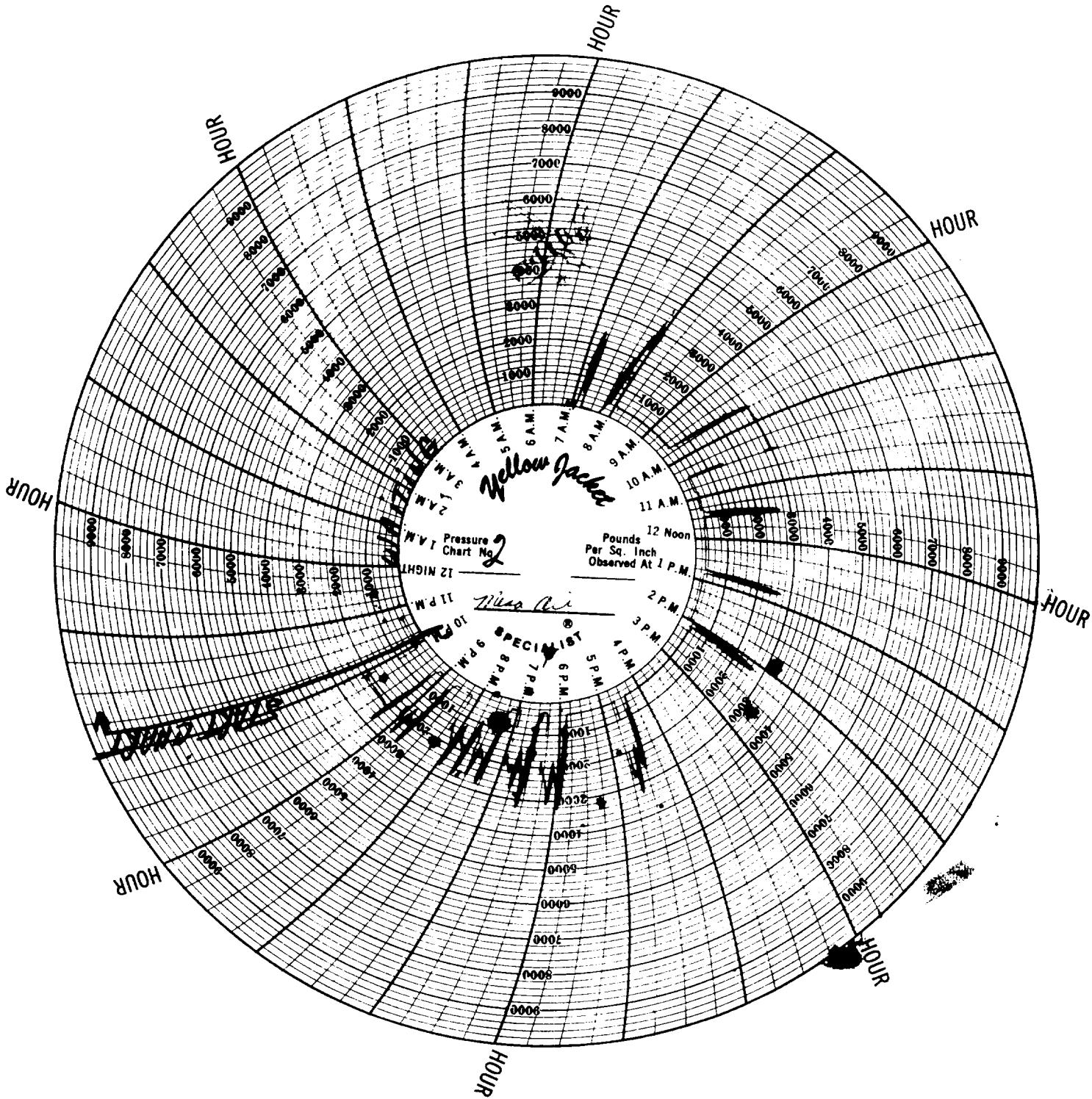
GC/cs

Attachments

CC: U. S. G. S.

Artesia, New Mexico





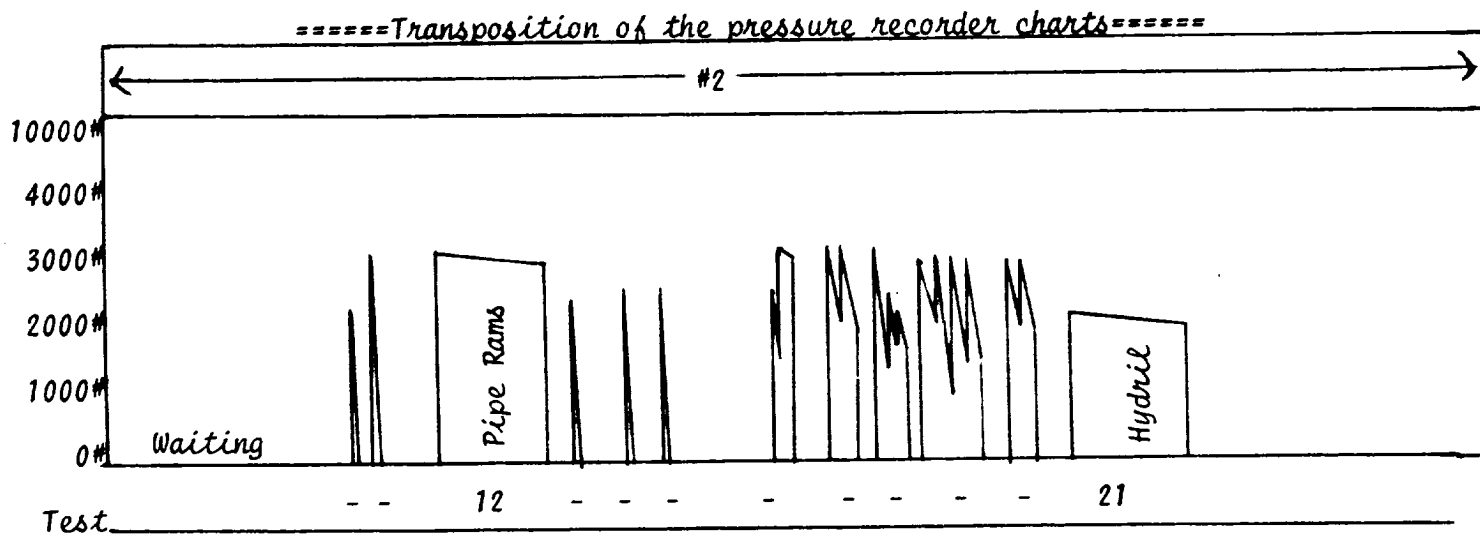
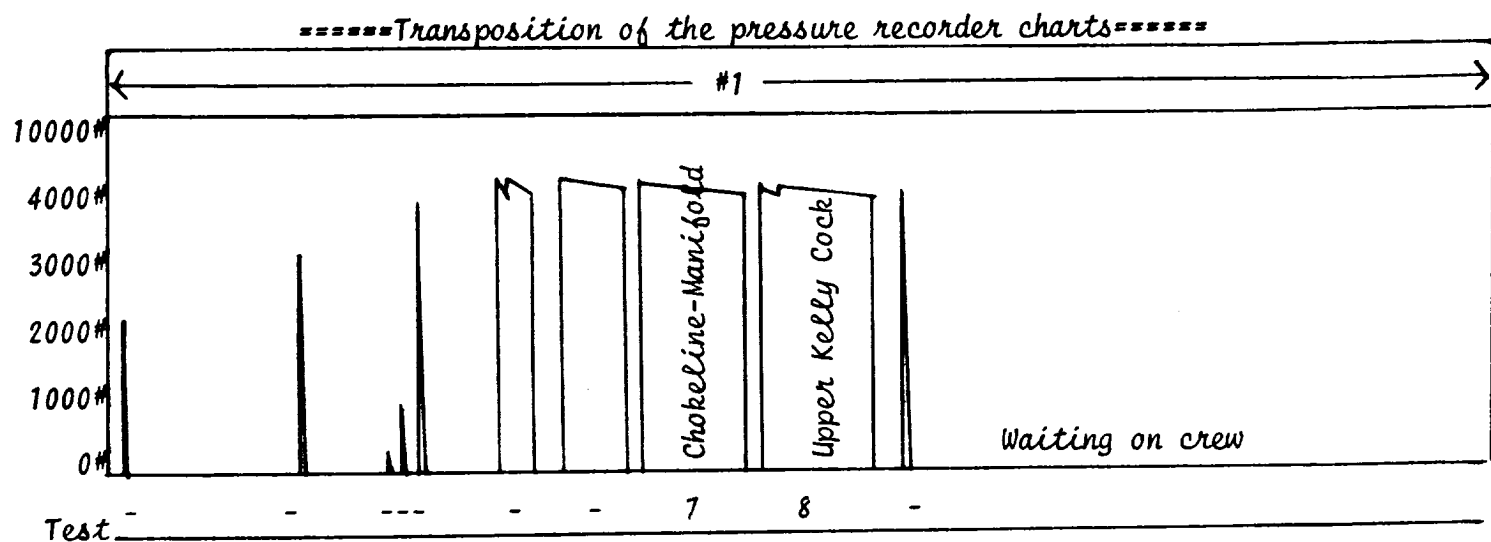
Details of bop test

Mes. Oil Corp.

Nash Unit #1

9/3/74

Contractor: McVay Drilling Co. Rig 10 Test by Yellow Jacket Tools and Services, Inc.



The above is a transposition of the pressure recorder charts covering test to the blowout control equipment in service on your well drilling in the Carlsbad, New Mexico Area, Amarillo District, Texas. Test was made with test packer landed in top of casing with following test results:

Arrived location - rig coming out of hole.

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TESTING: Chokeline-Manifold with wing valves closed off manifold cross, outlet valve closed off choke-manifold cross, and inside valve closed next to stack on chokeline - pressure applied thru gauge connection.

Test #1 Pressured to 2000# with leak to flange between outside valve off stack on chokeline and chokeline.

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TESTING: Pipe Rams with all inside valves closed next to stack - pressure applied down drill pipe.

Test #2 Pressured to 3000# with leak to flange between drilling spool and casing spool. Tightened.

Test #3 Repeated test. Pressured to 200# and released air; repressured to 400# and released air. No test.

Test #4 Repeated test. Pressured to 3800# with leak to test packer. No test.

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RETEST: Chokeline-Manifold same as before but with wing valves closed off manifold cross, outlet valve closed off choke-manifold cross, and inside valve closed next to stack on chokeline - pressure applied thru gauge connection.

Test #5 Pressured to 4000# with loss of pressure; repressured to 4000# with leak to flange between choke-manifold cross and chokeline. Tightened.

Test #6 Repeated test. Pressured to 4000# with same leak. Tightened.

Test #7 Repeated test. Pressured to 4000# with loss of approximately 100# during the first thirteen minutes then leveling out for remaining one minute of test.

NO VISIBLE LEAK. PRESSURE LEVELING OUT TOWARDS APPROXIMATELY 3900#.

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TESTING: Upper Kelly Cock with pressure applied at bottom of kelly.

Test #8 Pressured to 4000# with loss of pressure; repressured to 4000# with loss of approximately 100# during the first twelve minutes then leveling

out for remaining one minute of test.

NO VISIBLE LEAK. PRESSURE LEVELING OUT TOWARDS APPROXIMATELY 3900#.

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TESTING: Drill Pipe Safety Valve (Dart) - loose on rig floor.

Test #9 Pressured to 4000# with leak to middle connection of drill pipe safety valve.

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Waiting on repairs to packer.

START CHART #2

RETEST: Pipe Rams with all inside valves closed next to stack - pressure applied down drill pipe.

Test #10 Pressured to 2100# with leak to test packer. No test. Reset test packer.

Test #11 Repeated test. Pressured to 3000# with leak to flange between blind rams bop and drilling spool. Tightened.

Test #12 Repeated test. Pressured to 3000# with loss of approximately 100# during the first thirteen minutes then leveling out for remaining two minutes of test.

NO VISIBLE LEAK. PRESSURE LEVELING OUT TOWARDS APPROXIMATELY 2900#.

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TESTING: Hydril with all outside valves closed off stack.

Test #13 Pressured to 2300# with leak to flange between Hydril and pipe rams bop. Tightened.

Test #14 Repeated test. Pressured to 2500# with same leak. Tightened.

Test #15 Repeated test. Pressured to 2500# with same leak. Tightened.

- Test #16 Repeated test. Pressured to 2500# with loss of pressure; repressured to 3000# with same leak. Tightened.
- Test #17 Repeated test. Pressured to 3000# with loss of pressure; repressured to 3000# with loss of pressure. No visible external leaks.
- Test #18 Repeated test. Pressured to 3000# with leak to closing lines and leak to Hydril pack-off; repressured to 2500# with same leaks; repressured to 2200# with same leaks. Repaired closing lines and operated Hydril.
- Test #19 Repeated test. Pressured to 2800# with same leak to Hydril pack-off; repressured to 2800# with same leak; repressured to 2800# with same leak; repressured to 2800# with same leak. Operated.
- Test #20 Repeated test. Pressured to 2800# with same leak; repressured to 2800# with same leak. Operated.
- Test #21 Repeated test. Pressured to 2200# with loss of approximately 100# during first thirteen minutes then leveling out for remaining one minute of test.
- NO VISIBLE LEAK. PRESSURE LEVELING OUT TOWARDS APPROXIMATELY 2100#.
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A delay was observed to operation of blowout control equipment at the conclusion of testing - closing lines on Hydril hooked up backwards (corrected as needed). Closures were made using both closing unit pump and accumulators to the observed pressure of 1800# for test to ram type bops and 1200# for test to Hydril. Accumulators were pressured to 1800# at end of test. Control valves operated as indicated on closing unit manifold at end of test. Bop extensions were hooked up - rig coming out of hole. No test desired to lower kelly cock. Body test only to blind rams.

YELLOW JACKET TOOLS AND SERVICES, INC.

ODESSA, TEXAS

Test made by Roscoe Maxwell