

REPOLO OIL COMPANY

Wink, Texas, May 24th, 1935.

Dr. E. J. Wells,
State Geologist,
Socorro, New Mexico.

Dear Sir:

We are submitting herewith the data on the several tests which you have requested on our B. W. Arnold #1, located in Lea County, New Mexico, Section 11, township 20-S, Range 38-E.

We made a dry test from 4040-4165 with a Halliburton testing tool, showing no gas or oil.

A twenty^{minute}/test with a Johnson tester from 4167-4240 yielded one half joint of mud with no signs of gas or oil. A like test at 4305 for thirty seven minutes recovered six joints of mud with no gas or oil.

Using a Halliburton drill stem tester from 4305-4343 for a period of thirty minutes, we recovered one-half joint of oil and mud mixed, with no sign of gas.

Two tests were made from 4343-4400 with a Johnson tester; the first, for fourteen minutes, showing 120 feet of fluid with a light show of oil, and the second for thirty minutes showing 160 feet of fluid and a very light show of oil.

A Halliburton test from 4343-4628 for one hour and fifteen minutes revealed 450 feet of mud with one gallon of oil on top.

From 4347-4628 we used a Johnson tester for a fifty minute period and the result was 510 feet of mud with approximately 10% oil. Two subsequent tests in this same formation with a Johnson well packer were to no avail because the packer failed to hold in both cases. A fourth Johnson test failed when the seat failed to hold. Rearing the seat to 4349, a Johnson tester with cone and wall packers setting for two hours and forty minutes produced eleven stands of mud and water with some gas.

Here we attempted to acidize the well from 4200 to 4628. We ran in 15 barrels of water and ten barrels of oil before running the acid. After running 3000 gallons of acid we ran 2 barrels of oil. Planning to pump in 63 barrels of mud, the men got only 24 barrels in when the packing blew out of the blowout preventor, thus releasing the 1200 pressure on the well at this time, and permitting the acid to rise. Our plans to acidize this formation were to no avail.

A two hour test with a Johnson wall and seat packer from 4348-4757 revealed 750 feet of fluid (of which 300 feet was sulphur water) with a very light show of oil.

On May 21st and 22nd two Schlumberger tests were taken on this well but as yet we have received no data on these tests. We will forward this information when we receive it.

Yours very truly,

cc: J-3

Wink, Texas, May 24th, 1935.

Mr. E. J. Kelly,
State Geologist,
Austin, New Mexico.

Dear Sir:

We are submitting herewith the data on the several tests which you have requested on our B. W. Arnold #1, located in Lea County, New Mexico, Section 11, Township 30-N, Range 38-E.

We made a dry test from 4040-4185 with a Halliburton testing tool, showing no gas or oil.

A second test with a Johnson tester from 4187-4240 yielded one half barrel of fluid with no signs of gas or oil. A like test at 4205 for thirty minutes recovered six joints of mud with no gas or oil.

Using a Halliburton drill stem tester from 4205-4240 for a period of thirty minutes, we recovered one-half joint of oil and mud mixed, with no sign of gas.

Two tests were made from 4242-4400 with a Johnson tester; the first, for fourteen minutes, showing 130 feet of fluid with a slight show of oil, and the second for thirty minutes showing 100 feet of fluid and a very light show of oil.

A Halliburton test from 4242-4285 for one hour and fifteen minutes revealed 450 feet of mud with one joint of oil on top.

From 4247-4285 we used a Johnson tester for a fifty minute period and the result was 150 feet of mud with approximately 50% oil. Two subsequent tests in this same formation with a Johnson well tester were to no avail because the pressure failed to hold in both cases. A third Johnson test failed when the mud failed to hold. During the next test, a Johnson tester with cone and ball pressure setting for two hours and forty minutes produced eleven joints of mud and water with some gas.

There was attempted to produce oil from this well from 4285 to 4300. A run in 15 barrels of water and ten barrels of oil before testing the well. After running 3000 gallons of water we ran a barrel of oil. Planning to run in 15 barrels of water, the run was not made because the pressure failed to hold. The next test of the Johnson tester, then was made at 4300. The result was 150 feet of mud, and no oil. The next test was to run in 15 barrels of water and ten barrels of oil.

A test from 4300-4305 with a Johnson well tester and cone and ball pressure setting for two hours and forty minutes revealed 150 feet of fluid (oil and water) with no gas.

It is a very light show of oil. This information was received from the well.

Yours very truly,
E. J. Kelly

DUPLICATE