

HISTORY OF OIL OR GAS WELL
NAVAJO "C" WELL NO. 1

Navajo "C" Well No. 1 was spudded on January 1, 1959 and on January 6, 1959, 16" casing was set at 361' with 400 sacks 8% gel cement followed by 100 sacks neat cement. After waiting on cement, casing and water shut off were tested with 600 pounds pressure for thirty minutes, which held with no drop in pressure. Reduced hole to 13-3/4" at 361' and resumed drilling operations.

10-3/4" casing was landed at 2300' with 1200 sacks 4% gel cement, followed by 100 sacks neat cement. After waiting on cement for 28 hours, casing and water shut off were tested with 1000 pounds pressure for thirty minutes, which held with no drop in pressure. Reduced hole to 9-7/8" at 2300' and resumed drilling operations.

Ran induction electric log, microlog and sonic log at 5550'. 7-5/8" casing was set at 5570' with 150 sacks neat cement. After waiting on cement, casing and water shut-off were tested with 1000 pounds pressure for thirty minutes, which held with no drop in pressure. Top cement by temperature survey 5000'. Reduced hole to 6-1/2" at 5570' and resumed drilling operations.

5" liner was set from 5377' to 7026' and cemented with 210 sacks cement. Re-cemented top of liner with 50 sacks cement, did not hold. Re-cemented top of liner with 50 sacks cement, squeeze pressure 1800 psi. After waiting on cement 24 hours plugs were tested with 1250# psi with no drop in pressure. Completion operations were begun.

DST No. 1: 4760-4849 (Cotler) misrun, packer failure due to time element, DST No. 1 was eliminated.

DST No. 2: 5015-5095 (Cotler) tool open 1-1/4 hours. Weak blow, died after 35 minutes. Recovered 30' of drilling mud, no show of oil or gas. 30 minute initial shut in bottom hole pressure 70 pounds. Bottom hole final pressure 60 pounds. 30 minute final shut in bottom hole pressure 60 pounds, bottom hole temperature 140 degrees.

DST No. 3: 5937-6048 (Paradox) tool open 3 hours. Good blow air immediately, gas to surface 10 minutes, gauged 64 MCFFPD. Recovered 330' gas cut mud with light rainbow oil. Initial 30 minute shut in bottom hole pressure 3310 pounds. Final bottom hole pressure 160-205 pounds. Final 30 minute shut in bottom hole pressure 1140 pounds. Hydrostatic in 3460 pounds and out 3445 pounds. Bottom hole temperature 165 degrees.

DST No. 4: 6110-6240 (Paradox) initial shut in pressure 45 minutes 3635 pounds. Tool open 3 hours, strong blow of air immediately. Gas to surface in 3 minutes. Gauged 209 MCFFPD after 30 minutes. Gauged 149 MCFFPD after 1-1/2 hours. Gauged 100 MCFFPD after 3 hours. Initial shut in pressure 45 minutes 3180 pounds, initial flowing pressure 160 pounds, final flowing pressure 260 pounds. Recovered 782' of heavy gas with distillate cut mud, no water. Hydrostatic in 3720 pounds and out 3665 pounds. Temperature 170 degrees.

DST No. 5: 6230-6283 (Paradox) tool open 3 hours, gas to surface 6 minutes, too small to measure, recovered 90' gas cut mud. Initial 45 minute shut in pressure 2710 pounds, final pressure 70 - 90 pounds. Final 45 minute shut in pressure 410 pounds, hydrostatic in 3490 pounds, out 3480 pounds. Bottom hole temperature 172 degrees.

DST No. 6: 6284-6343 (Paradox) misrun, tool plugged.

DST No. 7: 6287-6347 (Paradox) tool open 3 hours, gas to surface 10 minutes, too small to measure. Recovered 95' gas cut mud and 2000' salt water. 45 minute initial shut in bottom hole pressure 3620 pounds, bottom hole final pressure 255 - 710 pounds, 45 minute final shut in bottom hole pressure 3435 pounds. Hydrostatic in 3785 pounds and out 3765 pounds. Bottom hole temperature 172 degrees.

DST No. 8: 6360-6435 (Paradox) tool open 3 hours. Good blow air immediately. Gas to surface 7 minutes, 209 MCFFPD. Recovered 300' gas cut mud. Initial flowing pressure 195 pounds, final flowing pressure 205 pounds. 45 minute initial final shut in bottom hole pressure 3735 pounds. Hydrostatic in 4005 pounds and out 3990 pounds. Bottom hole temperature 172 degrees.

DST No. 9: 6435-6570 (Paradox) misrun. Tool plugged in 1-1/2 hours. Tool open 3 hours. Gas to surface 12 minutes, too small to measure. Gas weakened and died in 1-1/2 hours. 45 minute shut in pressure initial 2755 pounds, 45 minute shut in pressure final 3675 pounds, initial flowing pressure 1668 pounds, final flowing pressure 1935 pounds. Hydrostatic in 3895 pounds, out 3885 pounds. Recovered 120' gas cut mud.

DST No. 10: 6435-6570 (Paradox) tool open 3-1/2 hours. Good glow air immediately with gas to surface in 26 minutes, too small to measure. Recovered 280' gas cut mud. Initial flowing pressure 155 pounds, final flowing pressure 190 pounds, 1 hour shut in pressure final 3425 pounds. Hydrostatic in 4020 pounds, out 4000 pounds, bottom hole temperature 172 degrees.

DST No. 11: 6585-6670 (Paradox) initial 1 hour shut in bottom hole pressure 3760 pounds. Tool open 3 hours. Good blow air immediately with gas to surface in 10 minutes, too small to measure. Recovered 525' gas cut mud, and 60' salt water, gas cut mud and slight show green oil. Flowing bottom hole pressure 200-245 pounds, final 1 hour shut in bottom hole pressure 3535 pounds. Hydrostatic in 4050 pounds, out 3980 pounds. Bottom hole temperature 175 degrees.

DST No. 12: 6975-7026 (Mississippian) tool open 4 hours. Good blow of air at once. Gas to surface in 30 minutes, too small to measure. Recovered 1680' of free oil and 690' of oil and gas cut mud. No show of water. Initial flowing pressure 200 pounds, final flowing pressure 720 pounds, 1 hour shut in pressure 3940 pounds. Hydrostatic in 4295 pounds, and out 4265 pounds, maximum temperature 188 degrees.

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 250 million to 450 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the progress of the investigation into the alleged activities of the British intelligence services in the United States.

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1. The above information was obtained from a review of the files of the FBI, and is being furnished to you for your information. It is requested that you advise the FBI of any further information that you may obtain regarding this matter.

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1. The first part of the document is a letter from the Director of the Central Intelligence Agency to the President, dated 10/10/50. The letter is signed by the Director and is addressed to the President. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

2. The second part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of State, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of State. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

3. The third part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of Defense, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of Defense. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

4. The fourth part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the Navy, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the Navy. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

5. The fifth part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the Army, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the Army. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

6. The sixth part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the Air Force, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the Air Force. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

7. The seventh part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the Marine Corps, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the Marine Corps. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

8. The eighth part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the Coast Guard, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the Coast Guard. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

9. The ninth part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the National Guard, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the National Guard. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

10. The tenth part of the document is a letter from the Director of the Central Intelligence Agency to the Secretary of the National Aeronautics and Space Administration, dated 10/10/50. The letter is signed by the Director and is addressed to the Secretary of the National Aeronautics and Space Administration. The letter discusses the results of a recent investigation into the activities of the Central Intelligence Agency and the need for further action to be taken.

The above information was obtained from a review of the records maintained by the FBI concerning the activities of the Communist Party, USA, District Office, New York City, during the period 1960-1970.

1. The first of these is the fact that the United States has a large and growing population of Negroes, who are the descendants of slaves brought to America by the British and other European powers. This population is now estimated to be about 10 million, and is growing at a rate of about 1% per year. This is a significant factor in the development of the United States, and is one of the reasons why the United States has a large and growing population of Negroes.

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1. The first of these is the fact that the oil is not a pure substance, but a mixture of many different compounds. This is why it is so difficult to find a single compound that can be used as a standard for the oil.

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1. The following information was obtained from the files of the FBI, New York Office, dated 10/10/50, and 10/11/50, and 10/12/50, and 10/13/50, and 10/14/50, and 10/15/50, and 10/16/50, and 10/17/50, and 10/18/50, and 10/19/50, and 10/20/50, and 10/21/50, and 10/22/50, and 10/23/50, and 10/24/50, and 10/25/50, and 10/26/50, and 10/27/50, and 10/28/50, and 10/29/50, and 10/30/50, and 10/31/50, and 11/1/50, and 11/2/50, and 11/3/50, and 11/4/50, and 11/5/50, and 11/6/50, and 11/7/50, and 11/8/50, and 11/9/50, and 11/10/50, and 11/11/50, and 11/12/50, and 11/13/50, and 11/14/50, and 11/15/50, and 11/16/50, and 11/17/50, and 11/18/50, and 11/19/50, and 11/20/50, and 11/21/50, and 11/22/50, and 11/23/50, and 11/24/50, and 11/25/50, and 11/26/50, and 11/27/50, and 11/28/50, and 11/29/50, and 11/30/50, and 12/1/50, and 12/2/50, and 12/3/50, and 12/4/50, and 12/5/50, and 12/6/50, and 12/7/50, and 12/8/50, and 12/9/50, and 12/10/50, and 12/11/50, and 12/12/50, and 12/13/50, and 12/14/50, and 12/15/50, and 12/16/50, and 12/17/50, and 12/18/50, and 12/19/50, and 12/20/50, and 12/21/50, and 12/22/50, and 12/23/50, and 12/24/50, and 12/25/50, and 12/26/50, and 12/27/50, and 12/28/50, and 12/29/50, and 12/30/50, and 12/31/50.

1. The above information was obtained from a review of the files of the Central Intelligence Agency, Department of Defense, and the Department of State, and is being furnished to you for your information.

Cores were taken on this well as follows: No. 1 6101-61 (Paradox), No. 2 6161-80 (Paradox), No. 3 6180-6240 (Paradox), No. 4 6240-63 (Paradox), No. 5 6263-6283 (Paradox), No. 6 6283-6343 (Paradox), No. 7 6343-6347 (Paradox), No. 8 6347-6369-1/2 (Paradox), No. 9 6369-1/2 - 6403 (Paradox), No. 10 6403-6415 (Paradox), No. 11 6510-6570 (Paradox), No. 12 6610-70 (Paradox), No. 13 6938-6966-1/2 (Molas), No. 14 6966-7026 (Mississippian).

Perforated Mississippian with four shots per foot 6981-6995. Acidized perforations 6981-6995 with 500 gallons 7-1/2% breakdown acid. Breakdown pressure 4600 psi, treating pressure 2600-1900 psi, average injection rate 1-1/2 barrels per minute. Well did not kick off. Swabbed 27 barrels lead water, 12 barrels acid water and 11 barrels fluid in 12 hours. Re-acidized perforations 6981-6995 with 1500 gallons 15% acid. Maximum treating pressure 1750 psi, average treating pressure 1700 psi. Well flowed back 27 barrels lead water and died. Swabbed 11-1/2 hours and recovered 139 barrels fluid, 36 barrels acid water, 34 barrels salt water and 69 barrels oil. Perforated Mississippian with four shots per foot 7008-7014 with Link jets. Displaced mud with water and set packer at 6953'. Swabbed 32 barrels oil with 75 barrels salt water in 22 hours. Pulled tubing and packer. Set bridge plug at 6910 capped with 10 foot of cement and tested with 1000 pounds which held ok. Perforated Paradox with four shots per foot 6366-6390. Spotted acid and set packer at 6330. Acidized perforations with 1500 gallons 15% regular Breakdown pressure 3100 psi, average treating pressure 1750 psi, average injection rate 2 barrels per minute. Opened well and kicked off and flowed 36 barrels acid water, 25 barrels lead water, 208 barrels oil. Killed well and pulled tubing and packer. 2" tubing was set at 6364'. Displaced mud with oil and well came in. Shut in and released rig on April 21, 1959.

Completed as shut in Paradox discovery gas well April 21, 1959. Gas gauged 9000 MCFPD on 32/64" choke with tubing pressure flowing 1450 psi. Produced 125 barrels oil with 15 barrels salt water in 27-1/2 hours or at rate of 109 barrels oil per day with 13 barrels salt water per day. Gas-oil ratio 82,569. Distillate gravity 68.3 - 71.7 degrees API.

