

NMOCC - Artesia, N.M.
Annual Pkr. Lkg. Test -
N. Indian Basin Unit No. 1

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3. On November 6, 1970, under the premise that the circulating sleeve in the Morrow tubing at 8913' has opened inadvertently and thereby indicated this communication, an Otis wireline unit ran a shifting tool and attempted to close this sleeve. The sleeve was found to be closed. The Otis unit then ran a 1 1/2" Type "BS" blanking plug in the Morrow tubing and landed it in the Type "S" nipple at 8941' below the "WA" packer in the permanent tailpipe. This plug was set in order to prevent any possible migration of fluids from the Upper Penn zone into the Morrow zone. After this plug was set, the Morrow tubing pressure then bled to 0 psig in 15 minutes.
4. On November 10, 1970, another packer leakage test was attempted on this well, but the test was discontinued when it became evident that communication between the Morrow and Upper Penn tubing strings still existed. (See Pressure Chart No. 2). Communication on this test came as no surprise because communication would still have been indicated with the circulating sleeve leaking. What is significant, however, is the fact that the Upper Penn shut in tubing pressure increased to 2069 psig in only three hours and ten minutes and appeared to have stabilized. As has been stated previously, 24-hour shut-in tubing pressures of 2071 psig were obtained during the Annual BHP Survey on the Upper Penn in August and again on a special survey in September of this year.

In summary, pressure and flow data obtained during the packer leakage test and other special tests conducted on this well indicate that the communication found between the Upper Penn and the Morrow Gas zones on the initial packer leakage test are the result of a leaking circulating sleeve in the Morrow tubing string at 8913'. It is the opinion of this office that, since no abnormal decline in shut-in in Upper Penn tubing pressures have been noted during these tests. The Morrow zone has been effectively isolated by the blanking plug set at 8941' in the Morrow tubing. Therefore, Marathon respectfully requests that the subject well be removed from the gas allocation statement and be classified as a temporarily abandoned well in the Morrow until further evaluation or workover of this interval can be economically justified.

Yours very truly,

MARATHON OIL COMPANY



C. S. Hilton, Jr.
Area Superintendent

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