

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

November 30, 1983

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Mr. S. J. Okerson Amoco Production Company Box 68 Hobbs, New Mexico 88240

Dear Mr. Okerson:

An exception, to tie back cement on the production string, is granted for your BDCDGU Well No. 2033 OllG located in Unit G of Section 1, Township 20 North, Range 33 East, Harding County, New Mexico.

You have made a diligent effort to accomplish this work and apparently have good cement over the appropriate formations.

Yours very truly,

JOE D. RAMEY Director

JDR/fd

cc: Carl Ulvog



Amoco Production Company (USA)

Post Office Box 68 Hobbs, New Mexico 88240

S. J. Okerson
District Superintendent

November 15, 1983

File: SJO-534-WF

Re: Cementing Programs

Bravo Dome Carbon Dioxide Gas Unit (BDCDGU) No. 2033 011G

Undesignated Tubb

Harding County, New Mexico

The State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

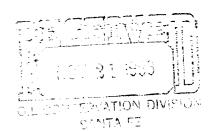
Attention: Joe Ramey

Gentlemen:

Your approval is hereby requested for an exception to the attached drilling permit proposing to tie-back cement on the 7" production casing to the 9-5/8" surface casing on BDCDGU No. 2033 011G. Recommend that cement tie-back operations be discontinued on this well based upon the quality of the hydraulic seal between the Tubb/Glorieta formations and other formations uphole, and the results of attempts made thus far to raise the top of cement.

To provide some background on Well No. 2033-011G, the 9-5/8" surface casing was set at 720' with 375 sx cement; 227 sx being circulated. The 7" production casing was set at 2618' with 800 sx cement. Circulation around the production casing was not obtained; therefore, a temperature survey was run indicating the top of cement to be approximately 1080'. A cement tie-back was attempted at 1030-31' where the casing was perforated but circulation could not be established. These perforations were squeezed with 500 sx cement. Pressure testing the squeeze confirmed that the perforations were still leaking so the perforations were resqueezed with 400 sx cement. The squeeze was once again pressure tested and still showing a leak.

A free pipe log was then run showing the cement top at approximately 1018'. The perforations were squeezed for a third time with 200 sx cement under a retainer rather than under a packer as the two previous



November 15, 1983 File: SJO-534-WF Page 2

squeezes had been. The well was drilled out and tested to 1200 psi satisfactorily. Another free pipe log was run indicating the top of cement at approximately 942'.

The well was then completed in the Tubb formation during which time a cement bond log was run from 1481'to 500' (See Attachment). The bond log showed that an excellent bond (hydraulic seal) exists from the bottommost logged interval up to about 1270', from 1085'-1105' and from 1020'-1065'. Moderate bonding exists up to approximately 920'. Additionally, several cement bridges exist up to the surface casing point which provide hydraulic seals. These uphole bridges have been confirmed by unsuccessful attempts to establish circulation during tie-back operations.

As a result of these "cement bridges" (hydraulic seals) up to the surface casing point and in light of efforts made to date, additional cement tie-back work is unnecessary. Effective hydraulic seals exist between both the Tubb (2294') and Glorieta (1822') formations with other uphole formations and the surface. Request your approval be granted to discontinue further tie-back operations.

If you have any questions, please contact Steve Lesikar in our Hobbs District Office at (505) 393-1781.

Yours very truly,

S. J OKELIN ALL

Attachments

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OIL CONSERVATION COMMISSION TO BE NOTIFIED WITHIN 24 HOURS OF BEGINNING OPERATIONS

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