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SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

COLO. OIL & GAS CONS. COMM.
CASPER, WYOMING 82602

August 16, 1983
WHW:88

Colorado Oil & Gas Conservation Commission
1313 Sherman Street
Denver, Colorado 80210

ATTN: Mr. William R. Smith, Director

RE: Application for Commingling of
Production for the 'D' and 'J' Sands
Nigrelle 5-1
C, NE, NE, Sec. 5, T3S, R64W
Bear Gulch Field
Adams Co., Colorado

Dear Mr. Smith:

Sohio Petroleum Company, as operator of the Nigrelle 5-1, C, NE, NE, Sec. 5, T3S, R64W, Bear Gulch Field, Adams Co., Colorado, requests your approval to commingle the 'J' sand production with the presently producing 'D' sand production. Attached hereto is a plat marked Exhibit 'A' and made a part hereof, which plat shows thereon the location of the Nigrelle 5-1 by an arrow and shows all other wells on said lease and the location of all offset wells on all offset leases.

Applicant states that the Nigrelle 5-1 was spudded 5/11/75 and drilled to a total depth of 8,420'. Eight and five-eighths inch (8-5/8") casing was set at 211' with 200 sacks of cement. Five and one-half inch (5 1/2") casing was set at 8,197' with 250 sacks of cement.

The well was perforated in the 'J' sand from 8,092'-98' and 8,114'-20' with 2 SPF. The 'J' sand was acidized with 500 gallons of 15% NE acid and fractured with 912 barrels of oil and 32,000# of 20/40 mesh sand. The load oil was swabbed back with a slight amount of gas. A bridge plug was set at 8,080'; isolating the 'J' sand. The 'D' sand was perforated from 8031'-36' with 2 SPF. The 'D' was acidized with 750 gallons of 15% NE acid and oil emulsion fractured with 8700# of 100 mesh and 14,700# of 20/40 mesh sand. The 'D' sand initially flowed at 50 BOPD and 140 MCFD. The well was put on pump 10/13/75. The well was bradenhead squeezed with 130 sacks 1/24/76. The well is presently producing 1.5 BOPD from the 'D' sand.

Present 'D' Sand Production	1.5 BOPD	
Estimated 'J' Sand Production		75 MCFD
Estimated Commingled Production	1.5 BOPD	75 MCFD

Attached hereto is a History Summary Data Sheet marked Exhibit 'B' and made a part hereof.

UPH	✓
FJP	
HMM	✓
JAM	✓
RCC	
LAR	
GCM	

8X

It is the intent of the applicant to clean out the well to the bridge plug and go in the hole with a sandline drill and knock the bridge plug at 8080' to bottom. A gauge ring will be run to PBDT at 8138'. A test packer will be set at 8050' and the well will be swabbed. The 'J' sand will be acidized with 1000 gallons of 15% HCl with inhibitors. The 'J' sand will be swab tested and a production rate established.

It is the intent of the applicant to remove the RTTS at 8050' following 'J' sand testing, clean out the well and commingle the 'D' sand and the 'J' sand production.

Applicant now states that it would not be feasible to install dual-zones producing equipment to separate production from the two zones. The applicant requests permission for authority to continue producing from the 'D' sand and to commingle the production from the 'J' sand.

Applicant is forwarding at the time of filing of this application a copy of this application to the lease operators of the offset leases as shown on Exhibit 'A' and listed below:

OFFSET LEASEHOLDERS

MAILING ADDRESS

Gulf Energy

1675 Broadway, Suite 2430
Denver, Colorado 80202

Koch

One Park Central, Suite 530
Denver, Colorado 80202

Amoco

1670 Broadway
Denver, Colorado 80202

Equity Oil Co.

718 - 17th St., Suite 2020
Denver, Colorado 80202

Very truly yours,

W. H. Ward
District Manager

TLM:ea
Attachments

cc: J. H. Walters
Bob Jones
T. L. Morrison
Gulf Energy
Koch
Amoco
Equity Oil Co.
File

DWR	
FJP	
HHM	
JAM	✓
RCC	
LAR	
GCM	

9A