#### STATE OF NEW MEXICO



**GARREY CARRUTHERS** 

GOVERNOR

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

October 12, 1990

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

BHP Petroleum 5847 San Felipe Suite 3600 Houston, TX 77057

Attention: Chuck Williams

Administrative Order NSL-2896

Dear Mr. Williams:

Reference is made to your application dated September 5, 1990 for a non-standard coal gas well location for your Gallegos Canyon Unit Well No. 390 to be located 245 feet from the South line and 1530 feet from the West line (Unit N) of Section 23, Township 29 North, Range 13 West, NMPM, Basin Fruitland Coal (Gas) Pool, San Juan County, New Mexico. The W/2 of said Section 23 shall be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 8 of the Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool as promulgated by Division Order No. R-8768, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,

William J. LeMay

Director

WJL/MES/ag

cc: Oil Conservation Division - Aztec

US Bureau of Land Management - Farmington

PRECEIVE ON ON ON ON ON ON ON ON



# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

TARREY CARRUTHERS
GOVERNOR

10X0 PIO HEAZOS FIOAD AZTEC, NEW MEXICO 07410 (505) 334-0178

Date: 10-3-90
Oil Conservation Division P.O. Box 2008 Santa Fe, NM 87504-2008
Re: Proposed MC Proposed DMC Proposed MSL Proposed SWD Proposed WFX Proposed PMX
Gentlemen:
I have examined the application dated 9-12-90
for the B. H. P. FET. (AMERICAS) INC. C. C.C. ST
Operator Lease & Well No.  N-23-29N-13u and my recommendations are as follows: Unit, S-T-R
Approcer
Yours truly,
Jemi Bouly

Aluteo Attal: E. Besch

5847 San Felipe Suite 3600 Houston, Texas 77057 Telephone: (713) **780-5000** Fax (713) 780-5273 Telex 9108813603

September 5, 1990

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

BHP Petroleum

RE:

Unorthodox Location, Administrative Approval Request Gallegos Canyon Unit #390 SE 1/4 SW 1/4 Sec. 23 T29N R13W San Juan County, New Mexico

#### Gentlemen:

BHP Petroleum respectfully requests that a non standard location be administratively approved to allow the GCU #390 well to be drilled 245' FSL and 1530' FWL to be completed in the Fruitland Coal.

The non standard location is requested due to topographical reasons and the surface owner's reluctance to allow any additional disturbance.

The proposed unorthodox location is adjacent to Amoco's existing #161-E Dakota well on a rock bluff approximately 220' above the river bottom. Movement to an orthodox location would require removal of several extremely large trees on the river bottom and construction and extensive maintenance of an access road along the river bottom.

The surface owner is the Bolack family and they have told us that the presently proposed location is the only acceptable place for the well.

The operations of the offsetting proration units not operated by BHP Petroleum are listed below and will be notified by certified mail, return receipt requested of our unorthodox location request.

Amoco Production Company General Minerals Corporation Mesa Limited Partnership Paramount Petroleum Corporation

Ernie Busch visited the subject location with J. C. Harris and myself on August 10, 1990.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Chuck Williams R Field Services Administrator

Chuck Williams

SEP1 2 1990

OIL CON. DIV.

Form 5160-3 (November 1983) (formerly 9-331C)

CONDITIONS OF APPROVAL, IF ANY:

## UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. Other instructions on reverse side)

Chuek

DATE \_

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-142 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

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	BHP PE					INC.			ALLEGOS	CANYON	UNIT		390
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#### **SURFACE USE & OPERATIONS PLAN**

WELL NAME AND NO.: Gallegos Canyon Unit Well No. 390

LOCATION: 245' FSL 1530' FWL (SE/SW) Section 23, T29N-R13W

**LEASE NO.:** NM 03654

#### 1) **EXISTING ROADS**:

- A. See Attached map.
- B. Travel south on Road #371 for approximately .5 miles, turn left on ridge road, go to auto gate, travel north toward radio towers, go 1.2 miles past towers to Amoco Production Company's #161-E well. Proposed well is adjacent to Amoco well.
- C. Access Roads to Location: See map
- D. Exploratory well: N/A
- E. Development Well: For all applicable access roads within a one (1) mile radius, see attached map.
- F. Plans for Improvement and/or Maintenance: BHP Petroleum, Amoco, and El Paso Natural Gas Company currently maintain the non-county, state or Irrigation Project roads. Maintenance is conducted on an as-needed basis.

#### 2) PLANNED ACCESS ROADS:

No new road is required.

#### 3) LOCATION OF EXISTING WELLS:

- A. Water Wells: None
- B. Abandoned Wells: None
- C. Temporarily Abandoned Wells: None
- D. Disposal Wells: Gallegos Canyon Unit #307 is the nearest disposal well.
- E. Drilling Wells: None presently.
- F. Producing Wells: Amoco #161-E is the nearest well, approximately 150' away. For additional wells see map.
- G. Shut-in Wells: None.
- H. Injection Wells: None.
- Monitoring or Observation Wells: None.

### 4) LOCATION OF EXISTING AND/OR PROPOSED FACILITIES OWNED AND/OR CONTROLLED BY BHP:

- A. Existing facilities: BHP Petroleum currently operates the Pictured Cliffs participating area within the Gallegos Canyon unit.
  - Tank Batteries: No oil or condensate is currently produced from BHP wells in the unit.
  - Production: All wells produce natural gas.
     Facilities: Some wells are equipped with rod pumps to remove excess water. Wells are normally equipped with a two (2) phase separator. El Paso Natural Gas Company has a glycol dehy unit upstream of the sales meter.
  - 3. Oil Gathering Lines: N/A
  - 4. Gas Gathering Lines: El Paso Natural Gas Company purchases all gas produced by BHP in this unit. There are two (2) systems in which our wells are introduced depending on the initial wellhead pressure.
  - 5. Injection Lines: N/A
  - Disposal Lines: Each well which produces water is tied into one of four (4) disposal systems.

#### B. New Production Facilities:

- Proposed Tank Battery: None
- Dimensions of Facilities: All new facilities are restricted to the existing pad area. New facilities will consist of a separator, dehy unit, meter house and two small earthen pits, unless the well requires a disposal line to remove excess water, in which case a pumping unit will be installed and the separator pit eliminated. All surface equipment to be painted tan. If water disposal pipelines are need, they will be applied for at a later date.
- 3. Construction Methods and Materials: The site will be leveled with a crawler type dozer. Native soils will be used. Any foundation material such as gravel will be purchased and trucked to the site if a pumping unit is needed.
- 4. Protective Measures and Devices: Any pits will be fenced to prevent entry by livestock or wildlife.

#### 5) LOCATION AND TYPE OF WATER SUPPLY:

- A. Location: San Juan River
- B. Method of Transportation: Water will be hauled by truck over existing roads.
- C. Water Wells to be Drilled: N/A

#### 6) SOURCE OF CONSTRUCTION MATERIALS:

- Location: Only native materials are necessary for the construction of drill site and related facilities.
- B. From Federal or Indian Lands: N/A
- Additional Materials: It may be necessary to haul gravel for a pumping unit base. If needed it will be hauled from Farmington.
- Access Roads on Federal or Indian Lands: All access roads are on private land. Amoco Production Company's Right-of-Way easements will be utilized for access.

#### 7) <u>METHODS OF HANDLING WASTE DISPOSAL:</u>

- A. Cuttings and drilling fluids will be placed in the reserve pit.
- B. Same as listed above.
- C. Produced fluids (water) will be placed in the reserve pit during testing.
- D. Sewage will be contained in a portable chemical toilet.
- E. Garbage and other water material will be place in a small trash cage, and disposed of in an approved sanitary land fill.
- F. Upon completion of the well the reserve pit will be backfilled.

#### 8) **ANCILLARY FACILITIES:**

- A. None are planned.
- B. Location and Pits and Stock Piles: For location of mud tanks, reserve pit, and pipe rack see attached diagram.
- C. Pad Orientation: For rig orientation and access roads, see attached diagram.
- D. Lining of Pits: It is not planned to line the reserve pit.
- E. O.S.H.A. Requirements: The disturbed area requested is sufficient to allow fracturing operations in a safe manner and in accordance with O.S.H.A. standards.

#### 9) PLAN FOR RESTORATION OF THE SURFACE:

A. Revegetation will be in accordance with BLM stipulations.

#### 10) OTHER INFORMATION:

A. Topography, Soil Characteristics, Geologic Features, Flora and Fauna:

The Gallegos Canyon Unit area topography varies considerably throughout the participating area. The southwest portion is primarily highly eroded sandstone with deep channels and rock outcroppings. The southeast portion is separated by the Gallegos Wash and is mostly

within the NAPI farming area. The north portion is separated by the San Juan River. Most all of the area north of the river is private land consisting of rural business and small farms and residences.

This site is on an existing well pad serving Amoco well #161-E. No significant additional disturbance will be required.

- B. Surface Use: Livestock grazing.
- C. Surface Ownership: Surface is privately owned.
- D. Proximity of Water, Dwellings, Archaeological, Historical Sites: Closest live water is the San Juan River approximately .5 miles north of the proposed location.
- E. There are no occupied dwellings within close proximity to the proposed location.

#### Archaeology

F. A cultural inventory report will be mailed directly to the Farmington BLM office.

#### 11) <u>LESSEE'S OR OPERATOR'S FIELD REPRESENTATIVE</u>:

BHP Petroleum (Americas) Inc.
Post Office Box 977
Farmington, New Mexico
Houston, Texas 77057
c/o Fred Lowery

BHP Petroleum (Americas) Inc. 5847 San Felipe, Suite 3600

(505) 327-1639 (24 hour answering service)

c/o Chuck Williams

(713) 780-5448

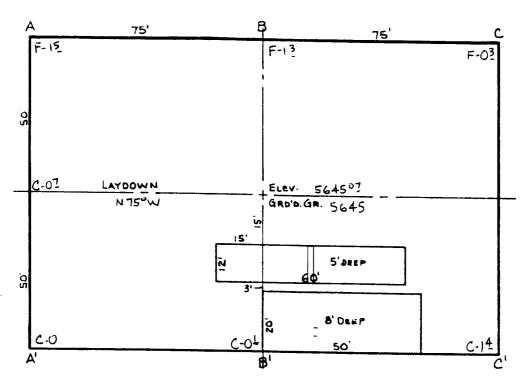
#### 12) **CERTIFICATION**:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by BHP Petroleum (Americas) Inc. and its contractors in conformity with this plan and the terms and conditions under which it is approved.

Junk Williams
Signed

BHP PETROLEUM (AMERICAS) INC. GALLEGOS CANYON UNIT #390 245'FSL & 1530'FWL Sec.23, T29N, R13W San Juan Co., N.M.





SCALE: 1": 30'

