

TF-02-005

Form C-132

Revised 10/1/86

## State of New Mexico

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

2040 Paseo del

Santa Fe, NM 87505

1220 S. San Francis Dr.

FOR DIVISION  
USE ONLY:

APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION

APPROPRIATE FILING FEE(S) ENCLOSED? YES ☒ NO ☐DATE COMPLETE APPLICATION FILED Sept. 19, 2001DATE DETERMINATION MADE Nov. 18, 2002WAS APPLICATION CONTESTED? YES ☐ NO ☒NAME(S) OF INTERVENORS(S), IF ANY: NA

- FILING FEE(S) -  
Effective October 1, 1986,  
a non-refundable filing fee of  
\$25.00 per category for each  
application is mandatory. (Rule  
2, Order No. R-5878-8-3)

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil &amp; Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Gallegos Canyon Unit

9. Well No.

506

10. Field and Pool, or Wildcat

Kutz

Pictured Cliffs West

12. County

San Juan

2. Name of Operator

Amoco Production Company

3. Address of Operator

P.O. Box 3092 Houston TX 77253

4. Location of Well

UNIT LETTER LLOCATED 1465

FEET FROM THE

SOUTH LINE

AND

1095

FEET FROM THE

WEST LINE OF SEC. 16TWS. 29NRGE. 12W

NMPM

11. Name and Address of Purchaser(s)

El Paso Field Services

Check appropriate box for category sought and information submitted. Enter required information on lines 1 and 2, below.

1. Category(ies) sought (By NGPA Section No.)

2. Filing Fee(s) Amount Enclosed: \$ 25.00

3. All applications must contain:

- a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
- b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
- c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
- d. AFFIDAVITS OF MAILING OR DELIVERY

4. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules of Applications for Wellhead Price Ceiling Category Determinations" as follows:

A. NEW NATURAL GAS UNDER SEC. 102 (c) (1) (B) (using 2.5 Mile or 1000 Feet Deeper Test)

☐ All items required by Rule 14 (1) and/or Rule 14 (2)

B. NEW NATURAL GAS UNDER SEC. 102 (c) (1) (C) (new onshore reservoir)

☐ All items required by Rule 15

C. NEW ONSHORE PRODUCTION WELL UNDER SEC. 103

☐ All items required by Rule 16a OR Rule 16B

D. SEC. 107 HIGH COST NATURAL GAS (TIGHT FORMATION, DEEP, COAL SEAM, AND PRODUCTION ENHANCEMENT) UNDER SEC. 103

☒ All items required by Rule 17 (1), Rule 17 (2), Rule 17 (4), or Rule 17 (5)

E. STRIPPER WELL NATURAL GAS UNDER SEC. 108

☐ All items required by Rule 18

I, HEREBY CERTIFY THAT THE INFORMATION CONTAINED  
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE AND BELIEF.

Mary Corley

NAME OF APPLICANT (TYPE OR PRINT)

SIGNATURE OF APPLICANT

Title Senior Regulatory AnalystDate September 5, 2001

FOR DIVISION USE ONLY

☒ Approved☐ Disapproved

The information contained herein includes all of the information required  
to be filed by the applicant under Subpart 8 of Part 274 of the FERC  
regulation

EXAMINER

API No. 30-045-28067



**San Juan Business Unit  
Amoco Production Company**

A Part of the BP Amoco Group  
501 WestLake Park Blvd.  
Houston, TX 77079-3092

Phone: 281-366-4491

August 29, 2001

State of New Mexico  
Oil Conservation Division  
2040 Pacheco St.  
Santa Fe, New Mexico 87505

Application For Well Category Determination  
NGPA Section 107  
Gallegos Canyon Unit Well No. 506  
San Juan County, New Mexico

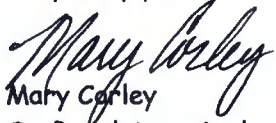
*API No. 30-045-28067*

Amoco Production Company is enclosing, for review and approval by the Oil Conservation Division, the original and one copy of an Application for Well Category Determination for the referenced well. Please hold the information in the filing confidential to the maximum extent allowed by law.

A copy of this letter and the FERC Form 121 has been mailed to each working interest owner entitled to receive Notice of this Application.

Please indicate receipt of this filing by date stamping the attached copy of this letter and returning the copy for our records.

Very truly yours,

  
Mary Corley  
Sr. Regulatory Analyst

Enclosures

Cc: Working Interest Owners

APPLICATION FOR WELL CATEGORY DETERMINATION  
PUSUANT TO SECTION 270 OF  
THE FEDERAL ENERGY REGULATORY COMMISSION'S  
REGULATIONS IMPLEMENTING  
THE NATURAL GAS POLICY ACT OF 1978 (NGPA)

AFFIDAVIT  
TIGHT FORMATION GAS

STATE OF TEXAS  
COUNTY OF HARRIS

BEFORE ME, the undersigned authority, duly commissioned and qualified within and for the State and County aforesaid, personally came and appeared Mary Corley, who being by me first duly sworn, deposed and said:

That she is the Senior Regulatory Analyst for Amoco Production Company, the applicant for the well hereinafter described, and that capacity, she is requesting the appropriate Authorized Officer to make a determine that this well is producing from a coal seal formation pursuant to the rules and regulations of the Bureau of Land Management and the Federal Energy Regulatory Commission (FERC), as such rules relate to NGPA.

That production from the Gallegos Canyon Unit # 506 well, API No. 30-045-28067 is natural gas produced from a FERC designated tight formation, assigned State No. NM - 55 through:

ms  
a well the surface drilling of which began after December 31, 1979, but before January 1, 1993;

ms  
a recompletion commenced after January 1, 1993, the surface drilling of which began after December 31, 1979, but before January 1, 1993; or

— a recompletion commenced after December 31, 1979 but before January 1, 1993, where such gas could not have been produced from any completion location in existence in the well bore before January 1, 1980; and

Said applicant has no knowledge of any information not described in the application that is inconsistent with her conclusion.

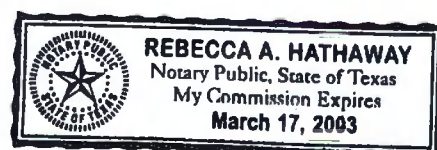
Mary Corley  
Mary Corley  
Senior Regulatory Analyst

Subscribed in my presence and duly sworn to before me, this 29 day of August, 2001.

Rebecca A. Hathaway  
Notary Public

My Commission Expires:

BLM Affidavit



Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

|   |
|---|
| WELL API NO.<br>30-045-28067  |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>B-9145  |
| 7. Lease Name or Unit Agreement Name<br>Gallegos Canyon Unit  |
| 8. Well No.<br>506  |
| 9. Pool name or Wildcat<br>W. Kutz Pictured Cliffs  |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>5593 GR                                       |

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

|  |
|--|
| 1. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER   |
| 2. Name of Operator<br>BHP Petroleum (Americas) Inc.   |
| 3. Address of Operator<br>5847 San Felipe, Suite 3600, Houston, Texas 77057  |
| 4. Well Location<br>Unit Letter L : 1465 Feet From The South Line and 1095 Feet From The West Line<br>Section 16 Township 29N Range 12W NMPM San Juan County |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>5593 GR  |

|   |  |
|---|--|
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data |  |
| NOTICE OF INTENTION TO:   | SUBSEQUENT REPORT OF:  |
| PERFORM REMEDIAL WORK <input type="checkbox"/>                                | REMEDIAL WORK <input type="checkbox"/>                         |
| TEMPORARILY ABANDON <input type="checkbox"/>                                  | ALTERING CASING <input type="checkbox"/>                       |
| PULL OR ALTER CASING <input type="checkbox"/>                                 | COMMENCE DRILLING OPNS. <input type="checkbox"/>               |
| OTHER: <input type="checkbox"/>   | PLUG AND ABANDONMENT <input type="checkbox"/>                  |
|   | CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/> |
|   | OTHER: Completion History <input checked="" type="checkbox"/>  |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The subject well has been completed. A daily summary of completion operations and deviation surveys are attached.

RECEIVED  
APR 08 1991  
OIL CON. DIV.  
DIST. 3

RECEIVED  
APR 08 1991  
OIL CON. DIV.  
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Beverly Comer TITLE Production Tech DATE March 18, 1991  
TYPE OR PRINT NAME Beverly Comer TELEPHONE NO. (713) 780-5000

(This space for State Use)

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE APR 08 1991  
CONDITIONS OF APPROVAL, IF ANY:



BHP PETROLEUM (AMERICAS), INC.  
GALLEGOS CANYON UNIT NO. 506  
SEC. 16, T29N-R12W (NW/SW)  
WEST KUTZ PICTURED CLIFFS FIELD  
SAN JUAN COUNTY, NEW MEXICO

WELL COMPLETION HISTORY

11/16/90- Depth 1532' (736') Drill 6-1/4" hole to 1532' with one survey. Change out mud pumps. Dev 1/2° @1230'. Bit No. 2 6-1/4" Varel V517 Ser #55696 in @ 148'. Jets 1/32 2-14. WOB all, RPM 80, psi 600, SPM 60, MW 8.4, Vis 28, MW 8.4, PV/YP 5/2, Gels 0/1, WL 15, pH 8.0, Solids 3.5, tr sand. DCs 14-4-3/4". Drill 14-1/4 hrs, lub rig 1/2 hr, rep rig 9 hr, dev survey 1/4 hr. DMC: \$400 CMC: \$900 DC: \$8,292 TAC: \$26,160

11/17/90- Depth 1745' (213') Drill 6-1/4" hole to 1745'. Circ. & Cond. for logs short trip to collars. POOH to 530, & spot heavy pill of 12.5 ppg mud to surface. POOH & RU HLS. GIH w/logging tools & set down @ 808'. TIH w/drill pipe, did not touch anything. Circ. & Cond. POH to collars & spot pill. POH & GIH w/ logging tools & set dn @ 816'. TIH w/DP no problems. Circ & cond. Raise wt to 13 ppg & vis to 80. POH, GIH w/logs & tools stopped at 816'. Dev 1/2° @1230'. Bit No. 2 6-1/4" Varel V517 Ser #55696 in @ 148'out @ 1745'. Jets 1/32 2-14. WOB all, RPM 80, psi 600, SPM 60, Vis 28, MW 13.0, vis 80, PV/YP 12/5, Gels 15/8, WL 5.0, pH 9.5, Solids 5, tr sand, FC/32 2. DCs 14-4 3/4". Drill 4-3/4 hrs, cond & circ 7 hrs, trips 8 3/4 hrs, lub rig 1/2 hr, WL logs 3 hrs. DMC: \$1500 CMC: \$2400 DC: \$7,642 TAC: \$33,802

11/18/90- TD: 1745' POH w/tools. TIH & wash fm 730 to 1000'. POH break dn stacked tools & ran DIL/SP/GR logs. Log TD 1745'. GIH w/SDL/DSN/Coal, tools stopped @ 803'. POH TIH w/DP to 1000' & cond. POH & change pad on density tool. GIH & ran SDL/DSN/COAL logs. TIH w/DP & cond for csg. POH LD DP & DCs. PU ran 42 jts. 4 1/2" 10.5# J-55 8R ST&C csg. & land @ 1733' KB. RU & cmt w/285 sx lead 50/50 poz, 2% gel, 10% salt, 1/4#sx Cel Seal & 30 sx tail Class "B" 1.2% CF low fluid loss obtained full ret w/2 bbl to surf. Bump plug & float held. Dn @ 12:30 am 11/18/90. ND & jet pit. Release rig @ 4:30am 11/18/90. Dev 1/2° @ 1230'. MW 13.0, vis 80, PV/YP 12/5, Gels 15/8, WL 5.0, pH 9.5, FC/32 2, Solids 5, tr sand. DCs 14-4-3/4". Cond & Circ. 3/4 hr, trips 4 hrs, W.L. Logs 7 hrs. run csg & cmt 3 1/2 hrs, Lay DN DP 2-1/4 hrs, ND BOP and jet 4 hrs. DMC: \$3800 CMC: \$6200 DC: \$33,776 TAC: \$67,578 WOCT.

12/28/90- TD: 1745' MIRU PU 3 7/8' bit & 4 1/2" csg. Scraper on 2 3/8" tbq & tally in hole. Tag cement @ 1625" KB. RU swivel. DC: \$ 2,600 TAC: \$2,600 TAC: \$70,178 WOCT.

12/29/90- TD: 1745' PBTB 1706' Drill out cement from 1625' to 1699' KB. RD power swivel & circ hole clean w/2% KCL & additives. RU perforators & ran GR/CCL log. Perforate the Pictured Cliffs from 1576' to 1604' w/ 3 1/8" premium charged 90 deg. phased csg gun @ 4 JSPF. All shots fired, no pressure to surface. RD perforators. SDFN. DC: \$4,700 TACC: \$7,300 TAC: \$74,878

12/30/90- TD:1745' PBDT: 1706' WO frac crew. DC: \$300 TACC: \$7,600 TAC: \$75,178

12/31/90- TD:1745' PBDT: 1706' Heat frac water. DC: \$800 TACC: \$8,400 TAC: \$75,978

01/01/91- TD: 1745' PBDT: 1706' No pressure on csg. RU BJ and fracture stimulate the Pictured Cliffs dn 4-1/2" csg with 8904 gal 30# linear gel, 70 quality foam and 62,580# 20/40 mesh brady sand at 25 BPM. Inj R/A material SC46 in fluid and IR192 in proppant. Max press 1400 psi, avg 1100 psi, avg rate 25 BPM. Max sand cond 5 ppg. ISIP 1180 . Bled back for closure. 15 min 992 psi. 4 hr SICP 760 psi. Open well to frac tank on 3/8" pos choke. TBLR 0 BLTR 212 Days 5 DC: \$26,800 TACC: \$35,200 TAC: \$102,778

01/02/91- TD: 1745' PBDT: 1706' Perfs 1576-1604'. 14 hour flowing on a 3/8" pos choke. FCP 312 psi. Recovered 84 bbl load with an est gas rate of 500 MCF/D. TBLR 84 BLTR 128 Days 6 DC: \$800 TACC: \$36,000 TAC: \$103,578

01/03/91- TD: 1745' PBDT: 1706' Perfs 1576-1604'. 24 hour flowing on a 3/8" pos choke. FCP 280 psi. Recovered 43 bbl load with an est gas rate of 400 MCF/D. TBLR 127 BLTR 85 Days 7 DC: \$300 TACC: \$36,300 TAC: \$103,878

01/04/91- TD: 1745' PBDT: 1706' Perfs 1576-1604'. 24 hour flowing on a 3/8" pos choke. FCP 270 psi. Recovered 40 bbl load with an est gas rate of 380 MCF/D. MIRU and kill well with 25 bbl 2% KCL & additives and TIH w/tbg. Tag sand at 1582'. Circulate and clean out to PBDT. POH RU HLS and ran a tracer check log from 1694' to 1500'. TIH with 51 jts 2-3/8" 4.7# J-55 8R EUE tbg and land at 1605' KB with S.N. at 1572' KB. ND BOPE NU Well head. RU and swab back 10 bbl and well kicked off flowing. Left well flowing on a 3/8" pos choke. TBLR 177 BLTR 60 Days 8 DC: \$10,300 TACC: \$46,600 TAC: \$114,178

01/05/91- TD: 1745' PBDT: 1706' Perfs 1576-1604' Well dead. Swab back 12 bbl and well kicked off flowing. Flow well on a 3/8" pos choke for 3 hours and set test separator. Flowing well through test separator. TBLR 197 BLTR 40 Days 9 DC: \$1,800 TACC: \$48,400 TAC: \$115,978

01/06/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 21 hours flowing well through test separator with a 2" meter run. FTP 155 psi, csg 300 psi. Recovered 25 bbl load w/ a gas rate of 1314 MCF/D. TBLR 222 BLTR 15 Days 10 DC: \$0 TACC: \$48,400 TAC: \$115,978

01/07/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 21 hours flowing well through test separator with a 2" meter run. FTP 145 psi, csg 270 psi. Recovered 33 bbl load w/ a gas rate of 1290 MCF/D. TBLR 255 BLTR +18 Days 11 DC: \$0 TACC: \$48,400 TAC: \$115,978

01/08/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 24 hours flowing well through test separator with a 2" meter run. FTP 160 psi, csg 262 psi. Recovered 34 bbl load w/ a gas rate of 1213 MCF/D. TBLR 289 BLTR +52 Days 12 DC: \$0 TACC: \$48,400 TAC: \$115,978

01/09/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 24 hours flowing well through test separator with a 2" meter run. FTP 165 psi, csg 262 psi. Recovered 27 bbl load w/ a gas rate of 1138 MCF/D. TBLR 316 BLTR +79 Days 13 DC: \$800 TACC: \$49,200 TAC: \$116,778

01/10/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 24 hours SITP 340 psi, SICP 360 psi. TBLR 316 BLTR +79 Days 14 DC: \$0 TACC: \$49,200 TAC: \$116,778 FINAL REPORT.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

|   |
|---|
| WELL API NO.<br>30-045-28067  |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>B-9145  |

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

|   |   |
|---|---|
| 1. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | 2. Name of Operator<br>BHP Petroleum (Americas), Inc. |
| 3. Address of Operator<br>5847 San Felipe, Suite 3600 Houston, TX 77057   |   |

|  |
|--|
| 7. Lease Name or Unit Agreement Name<br>Gallegos Canyon Unit |
| 8. Well No.<br>506   |
| 9. Pool name or Wildcat<br>W. Kutz Pictured Cliffs           |

|   |
|---|
| 4. Well Location<br>Unit Letter <u>L</u> : <u>1465</u> Feet From The <u>South</u> Line and <u>1095</u> Feet From The <u>West</u> Line<br>Section <u>16</u> Township <u>29N</u> Range <u>12W</u> NMPM <u>San Juan</u> County |
|---|

|  |
|--|
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>5593' GR |
|--|

|   |  |
|---|--|
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data   |  |
| <b>NOTICE OF INTENTION TO:</b><br>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/><br>OTHER: <u>OIL CON. DIV. DIST. 3</u> <input type="checkbox"/> | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/><br>CASING TEST AND CEMENT JOB <input type="checkbox"/><br>OTHER: <u>Well History</u> <input checked="" type="checkbox"/> |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spud well @ 5:30 pm on 11/13/90. Drld 8-3/4" hole to 148' KB. Ran 3 jts 7" 20# K-55 8R ST&C csg & landed @ 143' KB. Cmt w/125 sxs (147.50 cu ft) Class "B" w/2% CaCl & 1/4# sx Cello seal. Full returns w/7 bbls cmt circ to surf. WOC. NU BOP. Test csg & blind rams to 2,000 psi. Drld 6-1/4" hole to 1745'. POOH. Ran DIL/SP/GR/SDL/DSN/Coal logs. Ran 42 jts 4-1/2" 10.5# J-55 8R ST&C csg. Landed @ 1733' KB. Cmt w/285 sxs (359 cu ft) lead, 50/50 Poz, 2% gel, 10% salt & 1/4# sx Cello seal. Tail w/30 sxs (35 cu ft) Class "B", 1.2% CF. Full ret w/2 bbls to surf. Rel rig @ 4:30 am on 11/18/90.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Beverly Comer TITLE Production Technician DATE 11/29/90  
TYPE OR PRINT NAME Beverly Comer TELEPHONE NO. 713/780-5000

(This space for State Use)

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE STATE ENGINEER DATE 11/29/90  
CONDITIONS OF APPROVAL, IF ANY:



Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

API NO. (assigned by OCD on New Wells)

30-045-28067

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.  
B-9145

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL  
WELL ☐

GAS  
WELL ☒

OTHER ☐

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

7. Lease Name or Unit Agreement Name

Gallegos Canyon Unit

2. Name of Operator

BHP Petroleum (Americas) Inc.

8. Well No.

506

3. Address of Operator

5847 San Felipe Ste 3600 Houston TX 77057-3005

9. Pool name or Wildcat

W. Kutz Pictured Cliffs

4. Well Location

Unit Letter L : 1465 Feet From The South Line and 1095 Feet From The West Line

Section 16

Township 29N

Range 12W

NMPM

San Juan

County

10. Proposed Depth  
1721'

11. Formation  
Pictured Cliffs

12. Rotary or C.T.  
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)  
5593' GR

14. Kind & Status Plug. Bond  
Blanket

15. Drilling Contractor  
Unknown

16. Approx. Date Work will start  
Fall 1990

17. PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT      | EST. TOP |
|--------------|----------------|-----------------|---------------|----------------------|----------|
| 8 3/4"       | 7"             | 20#             | ±130'         | 50 sx (57.5 cu. ft.) | surf     |
| 6 1/4"       | 4 1/2"         | 10.5#           | ±1721'        | 216 sx (267 cu. ft.) | surf     |

It is proposed to drill the subject well to 1721' with primary production anticipated in the Pictured Cliffs.

Estimated formation tops: Ojo Alamo 202'  
Kirtland 296'  
Fruitland 1300'  
Basal Fruitland 1534'  
Pictured Cliffs 1571'  
TD 1721'

RECEIVED  
AUG 2 1990  
OIL CON. DIV  
DIST. 3

BOPE will consist of 2,000# Reagen Bladder type B.O.P., pipe rams & blind ram B.O.P.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Chuck Williams

TITLE Field Services Administrator DATE 7/26/90

TYPE OR PRINT NAME

(713) 780-5448

TELEPHONE NO.

(This space for State Use)

APPROVED BY

Ernest B. Bush

DEPUTY OIL & GAS INSPECTOR, DIST. #3

DATE

AUG 03 1990

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL EXPIRES  
UNLESS DRILLING IS COMMENCED.  
SPUD NOTICE MUST BE SUBMITTED  
WITHIN 10 DAYS.



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-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|  |   |                         |  |  |                        |
|--|---|-------------------------|--|--|------------------------|
| Operator<br><b>BHP PETROLEUM (AMERICAS) INC.</b>   |   |                         | Lease<br><b>GALLEGOS CANYON UNIT</b>   |  | Well No.<br><b>506</b> |
| Unit Letter<br><b>L</b>  | Section<br><b>16</b>                          | Township<br><b>29 N</b> | Range<br><b>12 W</b>                   | County<br><b>San Juan</b>              |                        |
| Actual Footage Location of Well:<br><b>1465</b> feet from the <b>South</b> line and <b>1095</b> feet from the <b>West</b> line |   |                         |  |  |                        |
| Ground level Elev.<br><b>5593</b>  | Producing Formation<br><b>Pictured Cliffs</b> |                         | Pool<br><b>W. Kutz Pictured Cliffs</b> | Dedicated Acreage:<br><b>160</b> Acres |                        |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900 10230 10560 10890 11220 11550 11880 12210 12540 12870 13200 13530 13860 14190 14520 14850 15180 15510 15840 16170 16500 16830 17160 17490 17820 18150 18480 18810 19140 19470 19800 20130 20460 20790 21120 21450 21780 22110 22440 22770 23100 23430 23760 24090 24420 24750 25080 25410 25740 26070 26400 26730 27060 27390 27720 28050 28380 28710 29040 29370 29700 30030 30360 30690 31020 31350 31680 32010 32340 32670 33000 33330 33660 33990 34320 34650 34980 35310 35640 35970 36300 36630 36960 37290 37620 37950 38280 38610 38940 39270 39600 39930 40260 40590 40920 41250 41580 41910 42240 42570 42900 43230 43560 43890 44220 44550 44880 45210 45540 45870 46200 46530 46860 47190 47520 47850 48180 48510 48840 49170 49500 49830 50160 50490 50820 51150 51480 51810 52140 52470 52800 53130 53460 53790 54120 54450 54780 55110 55440 55770 56100 56430 56760 57090 57420 57750 58080 58410 58740 59070 59400 59730 60060 60390 60720 61050 61380 61710 62040 62370 62700 63030 63360 63690 64020 64350 64680 65010 65340 65670 66000 66330 66660 66990 67320 67650 67980 68310 68640 68970 69300 69630 69960 70290 70620 70950 71280 71610 71940 72270 72600 72930 73260 73590 73920 74250 74580 74910 75240 75570 75900 76230 76560 76890 77220 77550 77880 78210 78540 78870 79200 79530 79860 80190 80520 80850 81180 81510 81840 82170 82500 82830 83160 83490 83820 84150 84480 84810 85140 85470 85800 86130 86460 86790 87120 87450 87780 88110 88440 88770 89100 89430 89760 90090 90420 90750 91080 91410 91740 92070 92400 92730 93060 93390 93720 94050 94380 94710 95040 95370 95700 96030 96360 96690 97020 97350 97680 98010 98340 98670 99000 99330 99660 99990 100320 100650 100980 101310 101640 101970 102300 102630 102960 103290 103620 103950 104280 104610 104940 105270 105600 105930 106260 106590 106920 107250 107580 107910 108240 108570 108900 109230 109560 109890 110220 110550 110880 111210 111540 111870 112200 112530 112860 113190 113520 113850 114180 114510 114840 115170 115500 115830 116160 116490 116820 117150 117480 117810 118140 118470 118800 119130 119460 119790 120120 120450 120780 121110 121440 121770 122100 122430 122760 123090 123420 123750 124080 124410 124740 125070 125400 125730 126060 126390 126720 127050 127380 127710 128040 128370 128700 129030 129360 129690 130020 130350 130680 131010 131340 131670 132000 132330 132660 132990 133320 133650 133980 134310 134640 134970 135300 135630 135960 136290 136620 136950 137280 137610 137940 138270 138600 138930 139260 139590 139920 140250 140580 140910 141240 141570 141900 142230 142560 142890 143220 143550 143880 144210 144540 144870 145200 145530 145860 146190 146520 146850 147180 147510 147840 148170 148500 148830 149160 149490 149820 150150 150480 150810 151140 151470 151800 152130 152460 152790 153120 153450 153780 154110 154440 154770 155100 155430 155760 156090 156420 156750 157080 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204600 204930 205260 205590 205920 206250 206580 206910 207240 207570 207900 208230 208560 208890 209220 209550 209880 210210 210540 210870 211200 211530 211860 212190 212520 212850 213180 213510 213840 214170 214500 214830 215160 215490 215820 216150 216480 216810 217140 217470 217800 218130 218460 218790 219120 219450 219780 220110 220440 220770 221100 221430 221760 222090 222420 222750 223080 223410 223740 224070 224400 224730 225060 225390 225720 226050 226380 226710 227040 227370 227700 228030 228360 228690 229020 229350 229680 230010 230340 230670 231000 231330 231660 231990 232320 232650 232980 233310 233640 233970 234300 234630 234960 235290 235620 235950 236280 236610 236940 237270 237600 237930 238260 238590 238920 239250 239580 239910 240240 240570 240900 241230 241560 241890 242220 242550 242880 243210 243540 243870 244200 244530 244860 245190 245520 245850 246180 246510 246840 247170 247500 247830 248160 248490 248820 249150 249480 249810 250140 250470 250800 251130 251460 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298980 299310 299640 299970 300300 300630 300960 301290 301620 301950 302280 302610 302940 303270 303600 303930 304260 304590 304920 305250 305580 305910 306240 306570 306900 307230 307560 307890 308220 308550 308880 309210 309540 309870 310200 310530 310860 311190 311520 311850 312180 312510 312840 313170 313500 313830 314160 314490 314820 315150 315480 315810 316140 316470 316800 317130 317460 317790 318120 318450 318780 319110 319440 319770 320100 320430 320760 321090 321420 321750 322080 322410 322740 323070 323400 323730 324060 324390 324720 325050 325380 325710 326040 326370 326700 327030 327360 327690 328020 328350 328680 329010 329340 329670 330000 330330 330660 330990 331320 331650 331980 332310 332640 332970 333300 333630 333960 334290 334620 334950 335280 335610 335940 336270 336600 336930 337260 337590 337920 338250 338580 338910 339240 339570 339900 340230 340560 340890 341220 341550 341880 342210 342540 342870 343200 343530 343860 344190 344520 344850 345180 345510 345840 346170 346500 346830 347160 347490 347820 348150 348480 348810 349140 349470 349800 350130 350460 350790 351120 351450 351780 352110 352440 352770 353100 353430 353760 354090 354420 354750 355080 355410 355740 356070 356400 356730 357060 357390 357720 358050 358380 358710 359040 359370 359700 360030 360360 360690 361020 361350 361680 362010 362340 362670 363000 363330 363660 363990 364320 364650 364980 365310 365640 365970 366300 366630 366960 367290 367620 367950 368280 368610 368940 369270 369600 369930 370260 370590 370920 371250 371580 371910 372240 372570 372900 373230 373560 373890 374220 374550 374880 375210 375540 375870 376200 376530 376860 377190 377520 377850 378180 378510 378840 379170 379500 379830 380160 380490 380820 381150 381480 381810 382140 382470 382800 383130 383460 383790 384120 384450 384780 385110 385440 385770 386100 386430 386760 387090 387420 387750 388080 388410 388740 389070 389400 389730 390060 390390 390720 391050 391380 391710 392040 392370 392700 393030 393360 393690 394020 394350 394680 395010 395340 395670 396000 396330 396660 396990 397320 397650 397980 398310 398640 398970 399300 399630 399960 400290 400620 400950 401280 401610 401940 402270 402600 402930 403260 403590 403920 404250 404580 404910 405240 405570 405900 406230 406560 406890 407220 407550 407880 408210 408540 408870 409200 409530 409860 410190 410520 410850 411180 411510 411840 412170 412500 412830 413160 413490 413820 414150 414480 414810 415140 415470 415800 416130 416460 416790 417120 417450 417780 418110 418440 418770 419100 419430 419760 420090 420420 420750 421080 421410 421740 422070 422400 422730 423060 423390 423720 424050 424380 424710 425040 425370 425700 426030 426360 426690 427020 427350 427680 428010 428340 428670 429000 429330 429660 429990 430320 430650 430980 431310 431640 431970 432300 432630 432960 433290 433620 433950 434280 434610 434940 435270 435600 435930 436260 436590 436920 437250 437580 437910 438240 438570 438900 439230 439560 439890 440220 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487740 488070 488400 488730 489060 489390 489720 490050 490380 490710 491040 491370 491700 492030 492360 492690 493020 493350 493680 494010 494340 494670 495000 495330 495660 495990 496320 496650 496980 497310 497640 497970 498300 498630 498960 499290 499620 499950 500280 500610 500940 501270 501600 501930 502260 502590 502920 503250 503580 503910 504240 504570 504900 505230 505560 505890 506220 506550 506880 507210 507540 507870 508200 508530 508860 509190 509520 509850 510180 510510 510840 511170 511500 511830 512160 512490 512820 513150 513480 513810 514140 514470 514800 515130 515460 515790 516120 516450 516780 517110 517440 517770 518100 518430 518760 519090 519420 519750 520080 520410 520740 521070 521400 521730 522060 522390 522720 523050 523380 523710 524040 524370 524700 525030 525360 525690 526020 526350 526680 527010 527340 527670 528000 528330 528660 528990 529320 529650 529980 530310 530640 530970 531300 531630 531960 532290 532620 532950 533280 533610 533940 534270 534600 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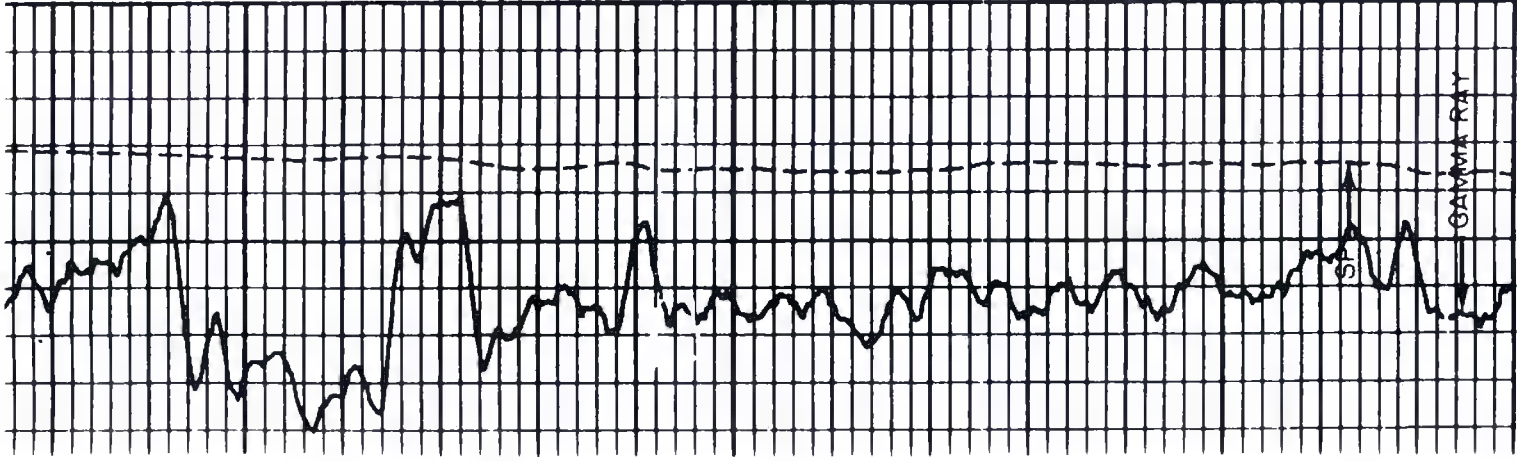


# DUAL INDUCTION LOG

|   |                  |
|---|------------------|
| COMPANY BHP PETROLEUM AMERICA8, INC.            |                  |
| WELL CALLEGOS CANYON UNIT NO.506                |                  |
| FIELD W. KUTZ PICTURED CLIFF8                   |                  |
| COUNTY SAN JUAN                                 | STATE NM         |
| API NO. N.A.                                    | OTHER SERVICES   |
| LOCATION 1465 F8L AND 1095 FWL                  | 8DL-D8N COAL LOG |
| SEC. 16 TWP. 29N RGE 12W                        |                  |
| PERMANENT DATUM G.L. ELEV. 5593                 | ELEV.: K.B. 5603 |
| LOG MEASURED FROM K.B. 10 FT. ABOVE PERM. DATUM | D.F. 5602        |
| DRILLING MEASURED FROM K.B.                     | G.L. 5593        |
| DATE 11-17-90                                   |                  |
| RUN NO. ONE                                     |                  |
| DEPTH-DRILLER 1745                              |                  |
| DEPTH-LOGGER 1745                               |                  |
| BTM. LOG INTER. 1743                            |                  |
| TOP LOG INTER. 132                              |                  |
| Casing-DRILLER 7.0 @143                         |                  |
| CASING-LOGGER 144                               |                  |
| BIT SIZE 6.25                                   |                  |
| TYPE FLUID IN HOLE GEL-CHEM.                    |                  |
| DENS. @ 1 VISC 13.2 @80                         |                  |
| PH @ FLUID LOSS 9.0 @5.0                        |                  |
| SOURCE OF SAMPLE FLOWLINE                       |                  |
| RM @ MEAS. TEMP. 5.0 @68                        |                  |
| RMF @ MEAS. TEMP. 4.2 @67                       |                  |
| RMC @ MEAS. TEMP. 5.9 @68                       |                  |
| SOURCE RMF : RMC MEAS. MEAS.                    |                  |
| RM @ BHT 3.8 @92                                |                  |
| TIME SINCE CIRC. 5 HOURS                        |                  |
| TIME ON BOTTOM 09:15                            |                  |
| MAX. REC. TEMP. 92 @T.D.                        |                  |
| EQUIP. : LOCATION 513111ENID                    |                  |
| RECORDED BY B. HALE                             |                  |
| INTERPRETER BY                                  |                  |

Fold Here

|  |                |                           |           |                   |                 |
|--|----------------|---------------------------|-----------|-------------------|-----------------|
| Service Ticket No.: 591148               |                | API Serial No.: N.A.      |           | PGM Version: 2.21 |                 |
| Change in Mud Type or Additional Samples |                | RESISTIVITY SCALE CHANGES |           |                   |                 |
| Date/Sample No.                          | / /            | Type Log                  | Depth     | Scale Up Hole     | Scale Down Hole |
| Depth-Driller                            |                |                           |           |                   |                 |
| Type Fluid                               |                |                           |           |                   |                 |
| In Hole                                  |                |                           |           |                   |                 |
| Dens. : Visc.                            |                |                           |           |                   |                 |
| PH : Fluid Loss                          |                |                           |           |                   |                 |
| Source of Sample                         |                |                           |           |                   |                 |
| Rm @ Meas.Temp.                          |                |                           |           |                   |                 |
| Rmf @ Meas.Temp.                         |                |                           |           |                   |                 |
| Rmc @ Meas.Temp.                         |                |                           |           |                   |                 |
| Source: Rmf:Rmc                          |                |                           |           |                   |                 |
| Rm @ BHT                                 | 3.8 @92        |                           |           |                   |                 |
| Rmf @ BHT                                | 3.2 @92        |                           |           |                   |                 |
| Rmc @ BHT                                | 4.5 @92        |                           |           |                   |                 |
| RESISTIVITY EQUIPMENT DATA               |                |                           |           |                   |                 |
| Run No.                                  | Tool Type & No | Pad Type                  | Tool Pos. | Other             |                 |
| Serial No.                               | DILT-A W9446   | NA                        | CENT.     |                   |                 |
| Model No.                                | DSGT-A W8921   | NA                        | CENT.     |                   |                 |
| Diameter                                 |                |                           |           |                   |                 |
| EQUIPMENT DATA                           |                |                           |           |                   |                 |
| GAMMA                                    |                | ACOUSTIC                  |           | DENSITY           |                 |
| Run No.                                  | ONE            | Run No.                   | ONE       | Run No.           | NEUTRON         |
| Serial No.                               | W188605        | Serial No.                | W8498     | Serial No.        |                 |
| Model No.                                | NGRT-A         | Model No.                 | SDLT-A    | Model No.         |                 |
| Diameter                                 | 3 5/8"         | No. of Cent.              |           | Diameter          | 4.5"            |



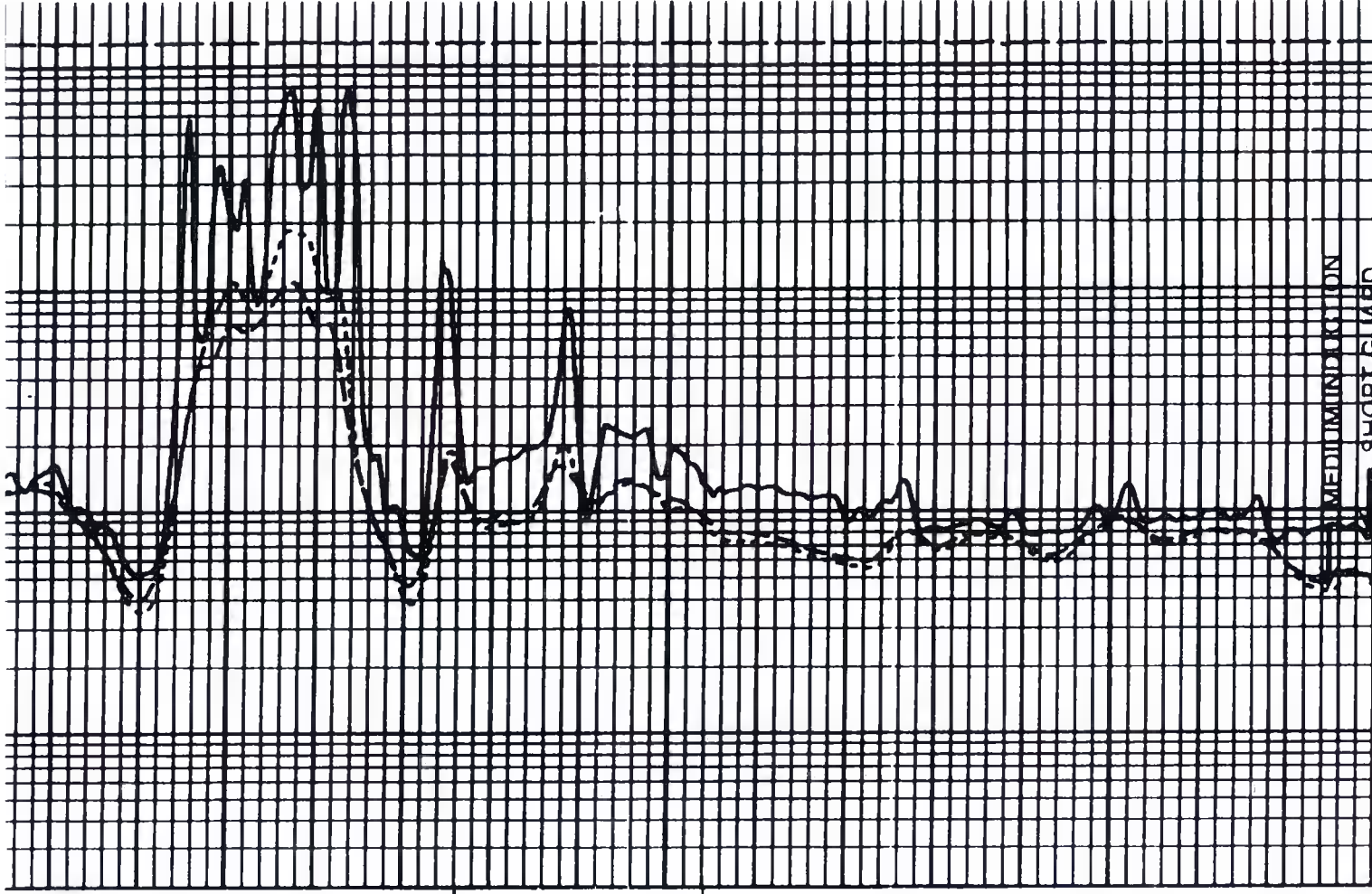
COAL

1570-1601

P.C. SAND

1600

possible water



TENSION

10000

POUNDS

0

MEDIUM

0.2

OHM-M

2000

GUARD

0.2

OHM-M

2000

DEEP

0.2

OHM-M

2000

GAMMA

API

200

SP

-110(+)



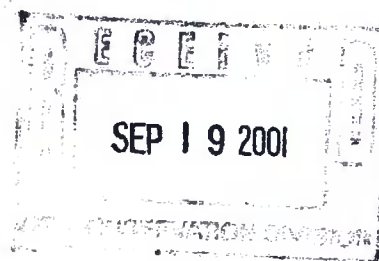
**San Juan Business Unit  
Amoco Production Company**

A Part of the BP Amoco Group  
501 WestLake Park Blvd.  
Houston, TX 77079-3092

Phone: 281-366-4491

August 29, 2001

State of New Mexico  
Oil Conservation Division  
2040 Pacheco St.  
Santa Fe, New Mexico 87505



**Application For Well Category Determination  
NGPA Section 107  
San Juan County, New Mexico**

Attached please find a check in the amount of \$150.00 payable to the State of New Mexico for NGPA Section 107 Well Category Determinations for the below listed Amoco Production Company wells.

|  |                            |                    |
|--|----------------------------|--------------------|
| Bunce Com Well # 1                         | Mesaverde Pool             | NM - 48            |
| Gallegos Canyon Unit Well # 323            | Pictured Cliffs Pool       | NM - 55            |
| Gallegos Canyon Unit Well # 323            | Fruitland Coal             | Coal Seam          |
| <del>Gallegos Canyon Unit Well # 506</del> | <del>Pictured Cliffs</del> | <del>NM - 55</del> |
| Heaton Gas Com LS Well # 9A                | Fruitland Coal             | Coal Seam          |
| Heaton Gas Com LS Well # 9A                | Mesaverde                  | NM - 48            |

Also enclosed, for review and approval by the Oil Conservation Division, are the original and one copy of an Application for Well Category Determination for each of the referenced wells.

Very truly yours,

*Mary Corley*  
Mary Corley  
Sr. Regulatory Analyst

Enclosures

RECEIVED  
SEP 19 2001  
OIL CONSERVATION  
DIVISION



## ENERGY, MINERALS AND NATURAL RESOURCES DEPT.

-521

NO. 117303

Official Receipt

Received from: RC - OCD/SF - Kathy ValdesDate: 9/19 ~~10~~ 2001

Dollar Amount

| DR<br>CR. | AMOUNT<br>NUMBER | CENTER<br>NUMBER | CREDIT<br>AMOUNT | DEPOSIT<br>NUMBER | WORK<br>ORDER NO. |
|-----------|------------------|------------------|------------------|-------------------|-------------------|
| 60        | 4290             |                  |                  |                   |                   |
| 60        | 4291             |                  |                  |                   |                   |
| 60        | 3450             |                  |                  |                   |                   |
| 60        | 3451             |                  |                  |                   |                   |
| 60        | 3410             |                  |                  |                   |                   |
| 60        | 4210             |                  |                  |                   |                   |
| 60        | 4240             |                  |                  |                   |                   |
| 60        | 1893             | 0711             | 150.00           |                   |                   |
| 60        |                  |                  |                  |                   |                   |
| 60        |                  |                  |                  |                   |                   |
| 60        |                  |                  |                  |                   |                   |

TOTAL

150.00

NGPA Filing Fee

By

KV



PAY TO THE  
ORDER OF

Amoco Production Company  
509 South Boston  
Tulsa, OK 74103

STATE OF NEW MEXICO  
2040 PACHEO ST  
SANTA FE, NM 87505 US

62-20  
311

CHECK NO. [REDACTED]

09/10/01

\*\*\*\*\*\$150.00

NOT VALID AFTER 6 MONTHS

*One hundred fifty and 00/100 Dollars*

TRACE NUMBER: [REDACTED]

Authorized Signature

CITIBANK DELAWARE. A SUBSIDIARY OF CITICORP  
ONE PENN'S WAY, NEW CASTLE, DE 19720

[REDACTED]

[REDACTED]

[REDACTED]

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District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-104  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

|   |   |   |
|---|---|---|
| <sup>1</sup> Operator Name and Address<br>Amoco Production Company<br>1670 Broadway<br>P.O. Box 800<br>Denver, Colorado 80201 |   | <sup>2</sup> OGRID Number<br>000778                           |
|   |   | <sup>3</sup> Reason for Filing Code<br>CH Effective 5-01-1996 |
| <sup>4</sup> API Number<br>30-045-28067   | <sup>5</sup> Pool Name<br>West Kutz Pictured Cliffs | <sup>6</sup> Pool Code<br>79680                               |
| <sup>7</sup> Property Code<br>00570   | <sup>8</sup> Property Name<br>Gallegos Canyon Unit  | <sup>9</sup> Well No.<br>506                                  |

II. <sup>10</sup> Surface Location

|                    |               |                 |              |         |                       |                           |                       |                        |                    |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|-----------------------|------------------------|--------------------|
| UL or lot no.<br>L | Section<br>16 | Township<br>29N | Range<br>12W | Lot Idn | Feet from the<br>1465 | North/South line<br>SOUTH | Feet from the<br>1095 | East/West line<br>WEST | County<br>SAN JUAN |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|-----------------------|------------------------|--------------------|

<sup>11</sup> Bottom Hole Location

|                             |  |  |  |   |  |                  |               |                |        |
|-----------------------------|--|--|--|---|--|------------------|---------------|----------------|--------|
| UL or lot no.               | Section  | Township                                     | Range                                    | Lot Idn                                   | Feet from the                              | North/South line | Feet from the | East/West line | County |
|                             |  |  |  |   |  |                  |               |                |        |
| <sup>12</sup> Lse Code<br>S | <sup>13</sup> Producing Method Code<br>Flowing | <sup>14</sup> Gas Connection Date<br>01/1992 | <sup>15</sup> C-129 Permit Number<br>N/A | <sup>16</sup> C-129 Effective Date<br>N/A | <sup>17</sup> C-129 Expiration Date<br>N/A |                  |               |                |        |

III. Oil and Gas Transporters

|  |  |                              |                        |  |
|--|--|------------------------------|------------------------|--|
| <sup>18</sup> Transporter OGRID<br>778 | <sup>19</sup> Transporter Name and Address<br>Amoco Production Co.<br>P.O. Box 800<br>Denver, CO 80201 | <sup>20</sup> POD<br>2810981 | <sup>21</sup> O/G<br>G | <sup>22</sup> POD ULSTR Location and Description |
|  |  |                              |                        |  |
|  |  |                              |                        |  |
|  |  |                              |                        |  |
|  |  |                              |                        |  |
|  |  |                              |                        |  |
|  |  |                              |                        |  |
|  |  |                              |                        |  |

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APR - 8 1996

IV. Produced Water

|                   |  |
|-------------------|--|
| <sup>23</sup> POD | <sup>24</sup> POD ULSTR Location and Description |
|-------------------|--|

OIL CON. DIV.  
DIST. 3

V. Well Completion Data

|                         |                                    |                         |                            |                            |
|-------------------------|------------------------------------|-------------------------|----------------------------|----------------------------|
| <sup>25</sup> Spud Date | <sup>26</sup> Ready Date           | <sup>27</sup> TD        | <sup>28</sup> PBTD         | <sup>29</sup> Perforations |
| <sup>30</sup> Hole Size | <sup>31</sup> Casing & Tubing Size | <sup>32</sup> Depth Set | <sup>33</sup> Sacks Cement |                            |
|                         |                                    |                         |                            |                            |
|                         |                                    |                         |                            |                            |
|                         |                                    |                         |                            |                            |
|                         |                                    |                         |                            |                            |

VI. Well Test Data

|                            |                                 |                         |                           |                             |                             |
|----------------------------|---------------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------|
| <sup>34</sup> Date New Oil | <sup>35</sup> Gas Delivery Date | <sup>36</sup> Test Date | <sup>37</sup> Test Length | <sup>38</sup> Tbg. Pressure | <sup>39</sup> Csg. Pressure |
| <sup>40</sup> Choke Size   | <sup>41</sup> Oil               | <sup>42</sup> Water     | <sup>43</sup> Gas         | <sup>44</sup> AOF           | <sup>45</sup> Test Method   |

<sup>46</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and the information given above is true and complete to the best of my knowledge and belief.

Signature:

Patty Haeefe

Printed Name: Patty Haeefe

Title: Staff Assistant

Date: April 5, 1996

Phone: (303) 830-4988

OIL CONSERVATION DIVISION

Approved by:

J.C. Harris

Title:

SUPERVISOR DISTRICT #3

Approval Date:

APR 26 1996

<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

J.C. Harris

Printed Name

Operations  
Superintendent

Title

April 2, 1996

Date

BHP Petroleum (Americas), Inc.

OGRID Number: 2217



DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II  
P.O. Drawer 1980, Artesia, NM 88210-0719

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-135  
Adopted 4-1-91

SEE FILING INSTRUCTIONS  
BOTTOM OF PAGE

GAS WELL CONNECTION, RECONNECTION, OR DISCONNECTION NOTICE

This is to notify the Oil Conservation Division of the following:

Connection X First Delivery 01-10-92 960 MCF/D  
Date Initial Potential

Reconnection \_\_\_\_\_ First Delivery \_\_\_\_\_  
Date Initial Potential

Disconnection \_\_\_\_\_  
Date

for delivery of gas from the BHP PETROLEUM (AMERICAS) INC.  
Operator

GALLEGOS CANYON UNIT  
Lease

97154-01 506 L Sec. 16, T29N, R12W  
Meter Code Site Code Well No. Unit Letter S-T-R

W. KUTZ PICTURED CLIFF  
Pool

was made on 01-10-92  
Date

AOF Choke

OCD use only

County Sg.

Land Type S

Liq. Transporter \_\_\_\_\_

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JAN 14 1992  
OIL CON. DIV.  
DIST. 3

BHP PETROLEUM (AMERICAS) INC.

Transporter

FRED Lowery  
Signature of Transporter Representative

FRED LOWERY OPERATIONS SUPT.

Printed Name and Title

(505) 327-1639  
P.O. BOX 977 FARMINGTON, NM 87499

Address and Telephone Number

FILING INSTRUCTIONS:

Each transporter of gas from a prorated gas well shall submit this form in duplicate to the appropriate district office of the Division within 30 days following the connection, reconnection, or disconnection of a well from their gathering/transportation system, in accordance with Rule 1104, Rule 1135, and R-8170 as amended.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

Well API No.

30-045-28067

|  |  |
|--|--|
| Operator<br>BHP PETROLEUM (AMERICAS) INC.  |  |
| Address<br>P.O. BOX 977 FARMINGTON, NM 87499   |  |
| Reason(s) for Filing (Check proper box)<br>New Well <input checked="" type="checkbox"/> Other (Please explain) <input type="checkbox"/><br>Recompletion <input type="checkbox"/> Change in Transporter of:<br>Change in Operator <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/><br>Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/> |  |
| If change of operator give name and address of previous operator   |  |

II. DESCRIPTION OF WELL AND LEASE

|  |                 |   |  |                     |
|--|-----------------|---|--|---------------------|
| Lease Name<br>GALLEGOS CANYON UNIT   | Well No.<br>506 | Pool Name, Including Formation<br>W. KUTZ PICTURED CLIFFS | Kind of Lease<br>State, Federal or Fee | Lease No.<br>B-9145 |
| Location<br>Unit Letter <u>L</u> : <u>1465</u> Feet From The <u>SOUTH</u> Line and <u>1095</u> Feet From The <u>WEST</u> Line<br>Section <u>16</u> Township <u>29N</u> Range <u>12W</u> , NMPM, <u>SAN JUAN</u> County |                 |   |  |                     |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

|  |  |
|--|--|
| Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>                    | Address (Give address to which approved copy of this form is to be sent) |
| Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> | Address (Give address to which approved copy of this form is to be sent) |
| BHP PETROLEUM (AMERICAS) INC.  | P.O. BOX 977 FARMINGTON, NM 87499  |
| If well produces oil or liquids, give location of tanks.   | Unit Sec. Twp. Rge. Is gas actually connected? When?                     |
|  | NO   |

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

|  |   |                          |                       |          |   |           |            |            |
|--|---|--------------------------|-----------------------|----------|---|-----------|------------|------------|
| Designate Type of Completion - (X)   | Oil Well  | Gas Well                 | New Well              | Workover | Deepen                                      | Plug Back | Same Res'v | Diff Res'v |
|  |   | X                        | X                     |          |   |           |            |            |
| Date Spudded<br>11-13-90   | Date Compl. Ready to Prod.<br>01-01-91                | Total Depth<br>1745'     | P.B.T.D.<br>1706'     |          |   |           |            |            |
| Elevations (DF, RKB, RT, GR, etc.)<br>5593' GR                                   | Name of Producing Formation<br>W. KUTZ PICTURED CLIFF | Top Oil/Gas Pay<br>1576' | Tubing Depth<br>1605' |          |   |           |            |            |
| Perforations<br>PRODUCING INTERVAL 1576'-1604' PERFORATIONS 1576'-1604' @ 4 JSPE |   | Depth Casing Shoe        |                       |          |   |           |            |            |
| TUBING, CASING AND CEMENTING RECORD  |   |                          |                       |          |   |           |            |            |
| HOLE SIZE  | CASING & TUBING SIZE                                  |                          | DEPTH SET             |          | SACKS CEMENT                                |           |            |            |
| 8-3/4"   | 7" 20#  |                          | 143' KB               |          | 125 sxs "B" + additives                     |           |            |            |
| 6-1/4"   | 4-1/2" 10.5#  |                          | 1733' KB              |          | 285 sxs 50/50 poz. & 30 sxs "B" + additives |           |            |            |
|  | 2-3/8" 4.7#   |                          | 1605'                 |          |   |           |            |            |

V. TEST DATA AND REQUEST FOR ALLOWABLE

|  |                 |   |
|--|-----------------|---|
| OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours) |                 |   |
| Date First New Oil Run To Tank   | Date of Test    | Producing Method (Flow, pump, gas lift, etc.) |
| Length of Test   | Tubing Pressure | Casing Pressure                               |
| Actual Prod. During Test   | Oil - Bbls.     | Water - Bbls.                                 |
|  |                 | NOV 8 1991<br>OIL CON. DIV.<br>DIST           |

GAS WELL

|  |                                  |                                  |                              |
|--|----------------------------------|----------------------------------|------------------------------|
| Actual Prod. Test - MCF/D<br>1138                          | Length of Test<br>24 HOURS       | Bbls. Condensate/MMCF<br>0       | Gravity of Condensate<br>N/A |
| Testing Method (pilot, back pr.)<br>TEST SEPARATOR-BACK P. | Tubing Pressure (Shut-in)<br>341 | Casing Pressure (Shut-in)<br>369 | Choke Size<br>3/8"           |

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

FRED LOWERY  
Signature  
FRED LOWERY OPERATIONS SUPT.  
Printed Name  
11-06-91 Title  
Date 327-1639  
Telephone No.

OIL CONSERVATION DIVISION  
NOV 08 1991  
Date Approved  
By 3. S. S.  
Title SUPERVISOR DISTRICT # 3

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Series 16  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer 100, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

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|   |
|---|
| WELL API NO.<br>30-045-28067  |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>B-9145  |
| 7. Lease Name or Unit Agreement Name<br>Gallegos Canyon Unit  |
| 8. Well No.<br>506  |
| 9. Pool name or Wildcat<br>W. Kutz Pictured Cliffs  |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>5593 GR                                       |

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

|  |  |
|--|--|
| 1. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER | 2. Name of Operator<br>BHP Petroleum (Americas) Inc.   |
| 3. Address of Operator<br>5847 San Felipe, Suite 3600, Houston, Texas 77057                              | 4. Well Location<br>Unit Letter L : 1465 Feet From The South Line and 1095 Feet From The West Line<br>Section 16 Township 29N Range 12W NMPM San Juan County |

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☒  
OTHER: Completion History ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The subject well has been completed. A daily summary of completion operations and deviation surveys are attached.

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APR 08 1991  
OIL CON. DIV.  
DIST. 3

RECEIVED  
MAR 27 1991  
OIL CON. DIV.  
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Beverly Comer TITLE Production Tech DATE March 18, 1991  
TYPE OR PRINT NAME Beverly Comer TELEPHONE NO. (713) 780-5000

(This space for State Use)

APPROVED BY 31.8 TITLE SUPERVISOR DISTRICT # 3 DATE APR 08 1991

CONDITIONS OF APPROVAL, IF ANY:



BHP PETROLEUM (AMERICAS), INC.  
GALLEGOS CANYON UNIT NO. 506  
SEC. 16, T29N-R12W (NW/SW)  
WEST KUTZ PICTURED CLIFFS FIELD  
SAN JUAN COUNTY, NEW MEXICO

WELL COMPLETION HISTORY

11/16/90- Depth 1532' (736') Drill 6-1/4" hole to 1532' with one survey. Change out mud pumps. Dev 1/2° @1230'. Bit No. 2 6-1/4" Varel V517 Ser #55696 in @ 148'. Jets 1/32 2-14. WOB all, RPM 80, psi 600, SPM 60, MW 8.4, Vis 28, MW 8.4, PV/YP 5/2, Gels 0/1, WL 15, pH 8.0, Solids 3.5, tr sand. DCs 14-4-3/4". Drill 14-1/4 hrs, lub rig 1/2 hr, rep rig 9 hr, dev survey 1/4 hr. DMC: \$400 CMC: \$900 DC: \$8,292 TAC: \$26,160

11/17/90- Depth 1745' (213') Drill 6-1/4" hole to 1745'. Circ. & Cond. for logs short trip to collars. POOH to 530, & spot heavy pill of 12.5 ppg mud to surface. POOH & RU HLS. GIH w/logging tools & set down @ 808'. TIH w/drill pipe, did not touch anything. Circ. & Cond. POH to collars & spot pill. POH & GIH w/ logging tools & set dn @ 816'. TIH w/DP no problems. Circ & cond. Raise wt to 13 ppg & vis to 80. POH, GIH w/logs & tools stopped at 816'. Dev 1/2° @1230'. Bit No. 2 6-1/4" Varel V517 Ser #55696 in @ 148' out @ 1745'. Jets 1/32 2-14. WOB all, RPM 80, psi 600, SPM 60, Vis 28, MW 13.0, vis 80, PV/YP 12/5, Gels 15/8, WL 5.0, pH 9.5, Solids 5, tr sand, FC/32 2. DCs 14-4 3/4". Drill 4-3/4 hrs, cond & circ 7 hrs, trips 8 3/4 hrs, lub rig 1/2 hr, WL logs 3 hrs. DMC: \$1500 CMC: \$2400 DC: \$7,642 TAC: \$33,802

11/18/90- TD: 1745' POH w/tools. TIH & wash fm 730 to 1000'. POH break dn stacked tools & ran DIL/SP/GR logs. Log TD 1745'. GIH w/SDL/DSN/Coal, tools stopped @ 803'. POH TIH w/DP to 1000' & cond. POH & change pad on density tool. GIH & ran SDL/DSN/COAL logs. TIH w/DP & cond for csg. POH LD DP & DCs. PU ran 42 jts. 4 1/2" 10.5# J-55 8R ST&C csg. & land @ 1733' KB. RU & cmt w/285 sx lead 50/50 poz, 2% gel, 10% salt, 1/4#sx Cel Seal & 30 sx tail Class "B" 1.2% CF low fluid loss obtained full ret w/2 bbl to surf. Bump plug & float held. Dn @ 12:30 am 11/18/90. ND & jet pit. Release rig @ 4:30am 11/18/90. Dev 1/2° @ 1230'. MW 13.0, vis 80, PV/YP 12/5, Gels 15/8, WL 5.0, pH 9.5, FC/32 2, Solids 5, tr sand. DCs 14-4-3/4". Cond & Circ. 3/4 hr, trips 4 hrs, W.L. Logs 7 hrs. run csg & cmt 3 1/2 hrs, Lay DN DP 2-1/4 hrs, ND BOP and jet 4 hrs. DMC: \$3800 CMC: \$6200 DC: \$33,776 TAC: \$67,578 WOCT.

12/28/90- TD: 1745' MIRU PU 3 7/8' bit & 4 1/2" csg. Scraper on 2 3/8" tbg & tally in hole. Tag cement @ 1625" KB. RU swivel. DC: \$ 2,600 TAC: \$2,600 TAC: \$70,178 WOCT.

12/29/90- TD: 1745' PBDT 1706' Drill out cement from 1625' to 1699' KB. RD power swivel & circ hole clean w/2% KCL & additives. RU perforators & ran GR/CCL log. Perforate the Pictured Cliffs from 1576' to 1604' w/ 3 1/8" premium charged 90 deg. phased csg gun @ 4 JSPF. All shots fired, no pressure to surface. RD perforators. SDFN. DC: \$4,700 TACC: \$7,300 TAC: \$74,878



12/30/90- TD:1745' PBDT: 1706' WO frac crew. DC: \$300 TACC: \$7,600 TAC: \$75,178  
12/31/90- TD:1745' PBDT: 1706' Heat frac water. DC: \$800 TACC: \$8,400 TAC: \$75,978  
01/01/91- TD: 1745' PBDT: 1706' No pressure on csg. RU BJ and fracture stimulate the Pictured Cliffs dn 4-1/2" csg with 8904 gal 30# linear gel, 70 quality foam and 62,580# 20/40 mesh brady sand at 25 BPM. Inj R/A material SC46 in fluid and IR192 in proppant. Max press 1400 psi, avg 1100 psi, avg rate 25 BPM. Max sand cond 5 ppg. ISIP 1180 . Bled back for closure. 15 min 992 psi. 4 hr SICP 760 psi. Open well to frac tank on 3/8" pos choke. TBLR 0 BLTR 212 Days 5 DC: \$26,800 TACC: \$35,200 TAC: \$102,778  
01/02/91- TD: 1745' PBDT: 1706' Perfs 1576-1604'. 14 hour flowing on a 3/8" pos choke. FCP 312 psi. Recovered 84 bbl load with an est gas rate of 500 MCF/D. TBLR 84 BLTR 128 Days 6 DC: \$800 TACC: \$36,000 TAC: \$103,578  
01/03/91- TD: 1745' PBDT: 1706' Perfs 1576-1604'. 24 hour flowing on a 3/8" pos choke. FCP 280 psi. Recovered 43 bbl load with an est gas rate of 400 MCF/D. TBLR 127 BLTR 85 Days 7 DC: \$300 TACC: \$36,300 TAC: \$103,878  
01/04/91- TD: 1745' PBDT: 1706' Perfs 1576-1604'. 24 hour flowing on a 3/8" pos choke. FCP 270 psi. Recovered 40 bbl load with an est gas rate of 380 MCF/D. MIRU and kill well with 25 bbl 2% KCL & additives and TIH w/tbg. Tag sand at 1582'. Circulate and clean out to PBDT. POH RU HLS and ran a tracer check log from 1694' to 1500'. TIH with 51 jts 2-3/8" 4.7# J-55 8R EUE tbg and land at 1605' KB with S.N. at 1572' KB. ND BOPE NU Well head. RU and swab back 10 bbl and well kicked off flowing. Left well flowing on a 3/8" pos choke. TBLR 177 BLTR 60 Days 8 DC: \$10,300 TACC: \$46,600 TAC: \$114,178  
01/05/91- TD: 1745' PBDT: 1706' Perfs 1576-1604' Well dead. Swab back 12 bbl and well kicked off flowing. Flow well on a 3/8" pos choke for 3 hours and set test separator. Flowing well through test separator. TBLR 197 BLTR 40 Days 9 DC: \$1,800 TACC: \$48,400 TAC: \$115,978  
01/06/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 21 hours flowing well through test separator with a 2" meter run. FTP 155 psi, csg 300 psi. Recovered 25 bbl load w/ a gas rate of 1314 MCF/D. TBLR 222 BLTR 15 Days 10 DC: \$0 TACC: \$48,400 TAC: \$115,978  
01/07/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 21 hours flowing well through test separator with a 2" meter run. FTP 145 psi, csg 270 psi. Recovered 33 bbl load w/ a gas rate of 1290 MCF/D. TBLR 255 BLTR +18 Days 11 DC: \$0 TACC: \$48,400 TAC: \$115,978  
01/08/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 24 hours flowing well through test separator with a 2" meter run. FTP 160 psi, csg 262 psi. Recovered 34 bbl load w/ a gas rate of 1213 MCF/D. TBLR 289 BLTR +52 Days 12 DC: \$0 TACC: \$48,400 TAC: \$115,978  
01/09/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 24 hours flowing well through test separator with a 2" meter run. FTP 165 psi, csg 262 psi. Recovered 27 bbl load w/ a gas rate of 1138 MCF/D. TBLR 316 BLTR +79 Days 13 DC: \$800 TACC: \$49,200 TAC: \$116,778  
01/10/91- TD: 1745: PBDT: 1706' Perfs 1576-1604'. 24 hours SITP 340 psi, SICP 360 psi. TBLR 316 BLTR +79 Days 14 DC: \$0 TACC: \$49,200 TAC: \$116,778 **FINAL REPORT.**

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-105  
Revised 1-1-89

OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87504

MAR 27 1991

WELL API NO.

30-045-28067

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

B-9145

7. Lease Name or Unit Agreement Name

Gallegos Canyon Unit

8. Well No.

506

9. Pool name or Wildcat

W. Kutz Pictured Cliffs

1a. Type of Well:

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐ DIST. 3

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐

2. Name of Operator

BHP Petroleum (Americas) Inc.

3. Address of Operator

5847 San Felipe, Suite 3600, Houston, Texas 77057

4. Well Location

Unit Letter L : 1465 Feet From The South Line and 1095 Feet From The West Line

Section 16 Township 29N Range 12W NMPM San Juan County

10. Date Spudded  
11/13/90

11. Date T.D. Reached  
11/17/90

12. Date Compl. (Ready to Prod.)  
1/1/91

13. Elevations (DF & RKB, RT, GR, etc.)  
5593' GR

14. Elev. Casinghead  
5593'

15. Total Depth  
1745'

16. Plug Back T.D.  
1706'

17. If Multiple Compl. How Many Zones?  
N/A

18. Intervals Drilled By  
Rotary Tools  
0-TD

Cable Tools  
0

19. Producing Interval(s), of this completion - Top, Bottom, Name

W. Kutz Pictured Cliffs 1576' - 1604'

20. Was Directional Survey Made  
Yes

21. Type Electric and Other Logs Run

SDL/DSN/Coal Logs

22. Was Well Cored  
No

23. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB/FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD                            | AMOUNT PULLED |
|-------------|---------------|-----------|-----------|---|---------------|
| 7"          | 20#           | 143' KB   | 8-3/4"    | 125 sx (1475 cu ft) "B"                     | -0-           |
|             |               |           |           | w/2% CaCl & 1/4 #sx cello Seal              |               |
| 4-1/2"      | 10.5#         | 1733' KB  | 6-1/4"    | 285 sx (359 cu ft) 50/50                    | -0-           |
|             |               |           |           | poz. 2% gel, 10% salt & 1/4 # sx            |               |
|             |               |           |           | Cello Seal 30 sx (35 cu ft) "B" & additives |               |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|------|-----|--------|--------------|--------|
| N/A  |     |        |              |        |

25. TUBING RECORD

| SIZE   | DEPTH SET | PACKER SET |
|--------|-----------|------------|
| 2-3/8" | 1605'     | None       |

26. Perforation record (interval, size, and number)

1576 - 1604' @ 4 JSPF (112 holes at .35" dia.)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|----------------|-------------------------------|
| 1576 - 1604'   | Frac w/32M gal of 70Q N2      |
|                | foam & 62,580# 20/40 sand.    |

28. PRODUCTION

|                                |                        |  |                        |                   |                    |                                      |                        |
|--------------------------------|------------------------|--|------------------------|-------------------|--------------------|--------------------------------------|------------------------|
| Date First Production<br>WOPLC |                        | Production Method (Flowing, gas lift, pumping - Size and type pump)<br>Flowing |                        |                   |                    | Well Status (Prod. or Shut-in)<br>SI |                        |
| Date of Test<br>1/09/91        | Hours Tested<br>24     | Choke Size<br>3/8"   | Prod'n For Test Period | Oil - Bbl.<br>N/A | Gas - MCF<br>1138  | Water - Bbl.<br>27                   | Gas - Oil Ratio<br>N/A |
| Flow Tubing Press.<br>165      | Casing Pressure<br>262 | Calculated 24-Hour Rate  | Oil - Bbl.<br>N/A      | Gas - MCF<br>1138 | Water - Bbl.<br>27 | Oil Gravity - API - (Corr.)<br>N/A   |                        |

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
venting

Test Witnessed By  
Fred Lowery

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

*Beverly Comer*

Printed Name

Beverly Comer

Title Production Tech Date 3/19/91

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## Southwestern New Mexico

## Northwestern New Mexico

|                          |                        |                                  |                        |
|--------------------------|------------------------|----------------------------------|------------------------|
| T. Anhy _____            | T. Canyon _____        | T. Ojo Alamo _____ 155'          | T. Penn. "B" _____     |
| T. Salt _____            | T. Strawn _____        | T. Kirtland-Fruitland _____ 307' | T. Penn. "C" _____     |
| B. Salt _____            | T. Atoka _____         | T. Pictured Cliffs _____ 1576'   | T. Penn. "D" _____     |
| T. Yates _____           | T. Miss _____          | T. Cliff House _____             | T. Leadville _____     |
| T. 7 Rivers _____        | T. Devonian _____      | T. Menefee _____                 | T. Madison _____       |
| T. Queen _____           | T. Silurian _____      | T. Point Lookout _____           | T. Elbert _____        |
| T. Grayburg _____        | T. Montoya _____       | T. Mancos _____                  | T. McCracken _____     |
| T. San Andres _____      | T. Simpson _____       | T. Gallup _____                  | T. Ignacio Otzte _____ |
| T. Glorieta _____        | T. McKee _____         | Base Greenhorn _____             | T. Granite _____       |
| T. Paddock _____         | T. Ellenburger _____   | T. Dakota _____                  | T. _____               |
| T. Blinebry _____        | T. Gr. Wash _____      | T. Morrison _____                | T. _____               |
| T. Tubb _____            | T. Delaware Sand _____ | T. Todilto _____                 | T. _____               |
| T. Drinkard _____        | T. Bone Springs _____  | T. Entrada _____                 | T. _____               |
| T. Abo _____             | T. _____               | T. Wingate _____                 | T. _____               |
| T. Wolfcamp _____        | T. _____               | T. Chinle _____                  | T. _____               |
| T. Penn _____            | T. _____               | T. Permian _____                 | T. _____               |
| T. Cisco (Bough C) _____ | T. _____               | T. Penn "A" _____                | T. _____               |

### OIL OR GAS SANDS OR ZONES

No. 1, from 1543' to 1575.75'  
No. 2, from 1576' to 1604'

## IMPORTANT WATER SANDS

**Include data on rate of water inflow and elevation to which water rose in hole.**

No. 1, from.....to.....feet.

No. 2, from.....to.....feet.

No. 3, from.....to.....feet.

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness<br>in Feet | Lithology                         |
|------|----|----------------------|-----------------------------------|
|      |    |                      | No samples or<br>DST's were taken |



Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION

Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO.  
30-045-28067

5. Indicate Type of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
B-9145

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:  
OIL WELL ☐ GAS WELL ☒ OTHER

2. Name of Operator  
BHP Petroleum (Americas), Inc.

3. Address of Operator  
5847 San Felipe, Suite 3600 Houston, TX 77057

7. Lease Name or Unit Agreement Name

Gallegos Canyon Unit

8. Well No.  
506

9. Pool name or Wildcat  
W. Kutz Pictured Cliffs

4. Well Location  
Unit Letter L : 1465 Feet From The South Line and 1095 Feet From The West Line  
Section 16 Township 29N Range 12W NMPM San Juan County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
5593' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Well History ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spud well @ 5:30 pm on 11/13/90. Drld 8-3/4" hole to 148' KB. Ran 3 jts 7" 20# K-55 8R ST&C csg & landed @ 143' KB. Cmt w/125 sxs (147.50 cu ft) Class "B" w/2% CaCl & 1/4# sx Cello seal. Full returns w/7 bbls cmt circ to surf. WOC. NU BOP. Test csg & blind rams to 2,000 psi. Drld 6-1/4" hole to 1745'. POOH. Ran DIL/SP/GR/SDL/DSN/Coal logs. Ran 42 jts 4-1/2" 10:5# J-55 8R ST&C csg. Landed @ 1733' KB. Cmt w/285 sxs (359 cu ft) lead, 50/50 Poz, 2% gel, 10% salt & 1/4# sx Cello seal. Tail w/30 sxs (35 cu ft) Class "B", 1.2% CF. Full ret w/2 bbls to surf. Rel rig @ 4:30 am on 11/18/90.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Beverly Comer TITLE Production Technician DATE 11/29/90

TYPE OR PRINT NAME Beverly Comer TELEPHONE NO. 713/780-5000

(This space for State Use)

APPROVED BY [Signature] SUPERVISOR DISTRICT # 3 DATE DEC 06 1990

CONDITIONS OF APPROVAL, IF ANY:



Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION  
RECEIVED P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

30 AUG 13 AM 9 20

|   |
|---|
| API NO. (assigned by OCD on New Wells)  |
| 30-045-28067  |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>B-9145  |

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|   |                |  |               |                     |          |
|---|----------------|--|---------------|---------------------|----------|
| 1a. Type of Work:<br>DRILL <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>   |                | 7. Lease Name or Unit Agreement Name<br>Gallegos Canyon Unit |               |                     |          |
| b. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/><br>SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |                | 8. Well No.<br>506 160                                       |               |                     |          |
| 2. Name of Operator<br>BHP Petroleum (Americas) Inc.  |                | 9. Pool name or Wildcat<br>W. Kutz Pictured Cliffs EXT       |               |                     |          |
| 3. Address of Operator<br>5847 San Felipe Ste 3600 Houston TX 77057-3005  |                |  |               |                     |          |
| 4. Well Location<br>Unit Letter <u>L</u> : <u>1465</u> Feet From The <u>South</u> Line and <u>1095</u> Feet From The <u>West</u> Line<br>Section <u>16</u> Township <u>29N</u> Range <u>12W</u> NMPM <u>San Juan</u> County |                |  |               |                     |          |
| 10. Proposed Depth<br>1721'   |                | 11. Formation<br>Pictured Cliffs                             |               |                     |          |
| 12. Rotary or C.T.<br>Rotary  |                |  |               |                     |          |
| 13. Elevations (Show whether DF, RT, GR, etc.)<br>5593' GR  |                | 14. Kind & Status Plug. Bond<br>Blanket                      |               |                     |          |
| 15. Drilling Contractor<br>Unknown  |                | 16. Approx. Date Work will start<br>Fall 1990                |               |                     |          |
| 17. PROPOSED CASING AND CEMENT PROGRAM  |                |  |               |                     |          |
| SIZE OF HOLE  | SIZE OF CASING | WEIGHT PER FOOT  | SETTING DEPTH | SACKS OF CEMENT     | EST. TOP |
| 8 3/4"  | 7"             | 20#  | ±130'         | 50 sx (57.5 cu.ft.) | surf     |
| 6 1/4"  | 4 1/2"         | 10.5#  | ±1721'        | 216 sx (267 cu.ft.) | surf     |

It is proposed to drill the subject well to 1721' with primary production anticipated in the Pictured Cliffs.

Estimated formation tops: Ojo Alamo 202'  
Kirtland 296'  
Fruitland 1300'  
Basal Fruitland 1534'  
Pictured Cliffs 1571'  
TD 1721'

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AUG 2 1990  
OIL CON. DIV.  
DIST. 3

BOPE will consist of 2,000# Reagen Bladder type B.O.P., pipe rams & blind ram B.O.P.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Chuck Williams TITLE Field Services Administrator DATE 7/26/90  
TYPE OR PRINT NAME Chuck Williams (713) 780-5448 TELEPHONE NO.

(This space for State Use)

APPROVED BY Eino Busch DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE 8-7-90  
AUG 03 1990

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL EXPIRES 2-3-91  
UNLESS DRILLING IS COMMENCED.  
SPUD NOTICE MUST BE SUBMITTED  
WITHIN 10 DAYS.

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-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|   |   |                         |  |                           |  |
|---|---|-------------------------|--|---------------------------|--|
| Operator<br><b>BHP PETROLEUM (AMERICAS) INC.</b>  |   |                         | Lease<br><b>GALLEGOS CANYON UNIT</b>       |                           | Well No.<br><b>506</b>                 |
| Unit Letter<br><b>L</b>   | Section<br><b>16</b>                          | Township<br><b>29 N</b> | Range<br><b>12 W</b>                       | County<br><b>San Juan</b> |  |
| Actual Footage Location of Well:<br><b>1465</b> feet from the <b>South</b> line and <b>1095</b> feet from the <b>West</b> line  |   |                         |  |                           |  |
| Ground level Elev.<br><b>5593</b>   | Producing Formation<br><b>Pictured Cliffs</b> |                         | Pool<br><b>W. Kutz Pictured Cliffs EXT</b> |                           | Dedicated Acreage:<br><b>160</b> Acres |
| <p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?<br/><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation: _____<br/>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p> |   |                         |  |                           |  |

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

N 88°46' W

77.36 ch.

RECEIVED

AUG -2 1990

OIL CON. DIV  
DIST. 3

16

1095'

1465'

N 89°50' W

39.81 ch.

N 89°37' W

39.78 ch.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*Chuck Williams*

Printed Name  
**Chuck Williams**

Position

**Field Services Administrator**

Company

**BHP Petroleum (Americas) Inc.**

Date

**July 26, 1990**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

7-2-90

Date Surveyed

**William B. Mahanke II**

Signature & Seal of  
Professional Surveyor

WILLIAM B. MAHANKE II  
NEW MEXICO  
#8466  
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No.

**8466**

BHP PETROLEUM (AMERICAS) INC.  
GALLEGOS CANYON UNIT NO. 506  
1465' FSL & 1095' FWL SECTION 16 T29N-R12W  
SAN JUAN COUNTY, NEW MEXICO  
TEN POINT PROGRAM

1. Surface Formation: Nacimiento or valley fill

2 &

3. Estimated Formation Tops:

| <u>Formation</u>     | <u>Top</u> | <u>Expected Production</u> |
|----------------------|------------|----------------------------|
| Ojo Alamo            | 202        |                            |
| Kirtland             | 296        |                            |
| Fruitland            | 1300       |                            |
| Basal Fruitland Coal | 1534       | Gas                        |
| Pictured Cliffs      | 1571       | Gas                        |
| Total Depth          | 1721       |                            |

4. Casing and Cementing Program: A string of 7" 20# K-55 casing with ST&C couplings is to be set at  $\pm 130'$  in an 8 3/4" hole and cemented to the surface in a single stage with 50 sx Class 'H' cement (yield = 1.15 ft<sup>3</sup>/sx) containing 3 % CaCl<sub>2</sub> and 1/4 #/sx celloflake. Slurry volume assumes a 100 percent excess over calculated hole volume. Centralizers will be run on the bottom two joints as long as boulders are not encountered while drilling the surface hole. If boulders are encountered while drilling the surface hole, no centralizers will be run as it has been BHP P(A)'s experience centralizers have a tendency to knock off boulders and hang up the casing while running in the hole. Minimum clearance between collars and hole is 1.094". Prior to drilling out shoe, casing and BOPE will be tested to a minimum of 2000 psi. Safety factors utilized in the design of this casing string were: Burst = 1.1, Collapse = 1.125, and Tension = 1.8 or 100,000# overpull whichever was greater.

A production string of 4 1/2" 10.5# K-55 casing with ST&C couplings will be run from the surface to total depth in a 6 1/4" hole. This string will be cemented to the surface with a minimum of 166 sx of 50-50 pozmix containing 2 % gel, 0.5 % fluid loss additive and 1/4 #/sx celloflake (yield = 1.26 ft<sup>3</sup>/sx) followed by 50 sx of Class 'G' cement containing low fluid loss additives (yield = 1.15 ft<sup>3</sup>/sx). Slurry volume assumes a 50 percent excess over calculated hole volume. Cement volume is subject to change after review and recalculation of

hole volume from the open hole calipers. Centralizers will be spaced such that a minimum of two are located above and two are located below the Basal Fruitland Coal; and, a minimum of one centralizer will be run just below the base and another into the base of Ojo Alamo. Minimum clearance between collars and hole is 1.25". Prior to perforating the casing for any attempted completion, the casing will be tested to a minimum of 2500 psi. Safety factors utilized in the design of this casing string were: Burst = 1.1, Collapse = 1.125, and Tension = 1.8 or 100,000# overpull whichever was greater.

A chronological log following the completion of the cementing operations detailing the pump rate, pump pressure, slurry density, and slurry volume for each job will be submitted in a Sundry Notice.

5. **Pressure Control Equipment:** (See attached schematic diagrams) A minimum of a 2M BOPE well control system will be utilized. BOP's and choke manifold will be installed and pressure tested before drilling out under surface casing and then will be checked daily as to mechanical operation condition. Ram type preventors will be tested to 70 percent of the internal yield pressure of the casing. The annular preventor will be tested to 50 percent of its working pressure.

A full opening internal blowout preventor or drill pipe safety valve will be on the drilling floor at all times and will be capable of fitting all connections.

6. **Mud Program:** A fresh water Low Solids, Non-Dispersed mud system will be used to drill this well. Sufficient materials will be on location at all times to maintain mud properties and to control any unforeseen lost circulation problems or abnormal pressures in the Farmington Sands of the Kirtland Formation. All drilling fluids will be contained in a steel pit. At the completion of drilling, the drilling fluid will be hauled off to be used for another well. The remaining accumulation of solids in the pit will be dumped into a small earthen pit beside the steel pit. As soon as this pit dries up, it will be covered up.

Mud program summary is as follows:

| <u>Interval</u><br><u>(feet)</u> | <u>Mud Weight</u><br><u>(#/gal)</u> | <u>Viscosity</u><br><u>(sec/qt)</u> |
|----------------------------------|-------------------------------------|-------------------------------------|
| 0 - 1000                         | 8.4 or less                         | 30 - 38                             |
| 1000 - TD                        | 9.3 or less                         | 40 - 55                             |



7. **Auxiliary Equipment:** An upper Kelly Cock will be utilized. At a minimum, a flow sensor will be installed in the system and the mud volume constantly be visually monitored.

8. **Logging Program:** SP-DIL and GR-FDC-CNL logs will be run from TD to surface casing shoe.

**Coring Program:** No cores are planned.

**Testing Program:** No tests are planned.

**Stimulation Program:** Perf the Basal Fruitland Coal with 2 JSPF and frac with 50,000 gals of either a 70 quality nitrogen foam or a crosslinked-gelled water containing a minimum of 50,000 lbs of 20-40 mesh sand.

9. **Abnormal Pressure:** Although not expected, abnormal pressures are possible in the Farmington Sands of the Kirtland Formation.

**Estimated Bottom Hole Pressure:** 400 psi.

10. **Anticipated Starting Date:** As soon as all required approvals are received.

**Duration of Operation:** It is anticipated a total of 4 days will be required for drilling operations and 5 days for completion operations.

CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION11/18/02 16:49:27  
OGOMES -TPGA  
PAGE NO: 1

Sec : 16 Twp : 29N Rng : 12W Section Type : NORMAL

|   |  |   |   |
|---|--|---|---|
| D<br>40.00<br>CS<br>E02447 0008<br>FOUR STAR OIL & G<br>C 02/10/59<br>A | C<br>40.00<br>CS<br>E02447 0008<br>FOUR STAR OIL & G<br>C 02/10/59 | B<br>40.00<br>CS<br>E09229 0004<br>MERIDIAN OIL, INC<br>C 07/19/65<br>A | A<br>40.00<br>CS<br>B11303 0016<br>BENSON MONTIN GRE<br>C 06/10/54<br>A |
| E<br>40.00<br>CS<br>E09229 0004<br>MERIDIAN OIL, INC<br>C 07/19/65      | F<br>40.00<br>CS<br>E03149 0011<br>FOUR STAR OIL & G<br>C 12/10/59 | G<br>40.00<br>CS<br>B10870 0020<br>BENSON MONTIN GRE<br>C 12/10/53      | H<br>40.00<br>CS<br>E09229 0004<br>MERIDIAN OIL, INC<br>C 07/19/65<br>A |

|           |          |            |           |      |      |
|-----------|----------|------------|-----------|------|------|
| PF01 HELP | PF02     | PF03 EXIT  | PF04 GoTo | PF05 | PF06 |
| PF07 BKWD | PF08 FWD | PF09 PRINT | PF10 SDIV | PF11 | PF12 |

CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION11/18/02 16:49:31  
OGOMES -TPGA  
PAGE NO: 2

Sec : 16 Twp : 29N Rng : 12W Section Type : NORMAL

|   |   |  |  |
|---|---|--|--|
| L<br>40.00<br>CS<br>B09145 0035<br>BP AMERICA PRODUC<br>C U 05/15/51<br>A A | K<br>40.00<br>CS<br>E02447 0008<br>FOUR STAR OIL & G<br>C U 02/10/59<br>A | J<br>40.00<br>CS<br>E09229 0004<br>MERIDIAN OIL, INC<br>C 07/19/65 | I<br>40.00<br>CS<br>E02447 0008<br>FOUR STAR OIL & G<br>C 02/10/59 |
| M<br>40.00<br>CS<br>E00498 0013<br>GLACIER PARK COMP<br>C U 08/10/55        | N<br>40.00<br>CS<br>B10870 0019<br>GLACIER PARK COMP<br>C U 12/10/53      | O<br>40.00<br>CS<br>E09229 0004<br>MERIDIAN OIL, INC<br>C 07/19/65 | P<br>40.00<br>CS<br>E09229 0004<br>MERIDIAN OIL, INC<br>C 07/19/65 |

|           |          |            |           |      |      |
|-----------|----------|------------|-----------|------|------|
| PF01 HELP | PF02     | PF03 EXIT  | PF04 GoTo | PF05 | PF06 |
| PF07 BKWD | PF08 FWD | PF09 PRINT | PF10 SDIV | PF11 | PF12 |

CMD :  
OG6IWCM

ONGARD  
INQUIRE WELL COMPLETIONS

11/18/02 16:49:49  
OGOMES -TPGA

API Well No : 30 45 28067 Eff Date : 05-01-1996 WC Status : A  
Pool Idn : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
OGRID Idn : 778 BP AMERICA PRODUCTION COMPANY  
Prop Idn : 570 GALLEGOS CANYON UNIT

Well No : 506  
GL Elevation: 5593

|  | U/L | Sec | Township | Range | North/South  | East/West    | Prop/Act (P/A) |
|--|-----|-----|----------|-------|--------------|--------------|----------------|
|  | --- | --- | ---      | ---   | ---          | ---          | ---            |
| B.H. Locn  | : L | 16  | 29N      | 12W   | FTG 1465 F S | FTG 1095 F W | P              |
| Lot Identifier:  |     |     |          |       |              |              |                |
| Dedicated Acre:  |     |     |          |       |              |              | 160.00         |
| Lease Type   | : S |     |          |       |              |              |                |
| Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) |     |     |          |       |              |              | : U            |

M0025: Enter PF keys to scroll

|           |      |           |              |              |             |
|-----------|------|-----------|--------------|--------------|-------------|
| PF01 HELP | PF02 | PF03 EXIT | PF04 GoTo    | PF05         | PF06        |
| PF07      | PF08 | PF09      | PF10 NEXT-WC | PF11 HISTORY | PF12 NXTREC |



CMD :  
OG6IPRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

11/18/02 16:50:02  
OGOMES -TPGA  
Page No: 1

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prodn. Days<br>MM/YY Prod | Production Volumes<br>Gas Oil Water | Well<br>Stat |
|-------------|----------------------|---------------------------|-------------------------------------|--------------|
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 93                     | 5145                                | 53           |
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 96 31                  | 5145                                | 53 F         |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 96 30                  | 5471                                | 98           |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 96 31                  | 6194                                | 101 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 08 96 31                  | 5627                                | 130 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 09 96 30                  | 6460                                | 125 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 10 96 31                  | 5593                                | 104 F        |

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

|           |          |           |              |             |              |
|-----------|----------|-----------|--------------|-------------|--------------|
| PF01 HELP | PF02     | PF03 EXIT | PF04 GoTo    | PF05        | PF06 CONFIRM |
| PF07 BKWD | PF08 FWD | PF09      | PF10 NXTPOOL | PF11 NXTOGD | PF12         |

CMD :  
OG6IPRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

11/18/02 16:50:06  
OGOMES -TPGA  
Page No: 2

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prod. Days<br>MM/YY Prod | Production Volumes<br>Gas Oil Water | Well<br>Stat |
|-------------|----------------------|--------------------------|-------------------------------------|--------------|
| 30 45 28067 | GALLEGOS CANYON UNIT | 11 96 30                 | 4993                                | 114 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 12 96 31                 | 6082                                | 86 F         |
| 30 45 28067 | GALLEGOS CANYON UNIT | 01 97 31                 | 6149                                | 99 F         |
| 30 45 28067 | GALLEGOS CANYON UNIT | 02 97 28                 | 6030                                | 154 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 03 97 31                 | 6506                                | 172 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 04 97 30                 | 4117                                | 146 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 97 31                 | 4325                                | 100 F        |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/18/02 16:50:07  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPGA  
Page No: 3

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prod. | Days | Production Volumes | Well |       |      |
|-------------|----------------------|-------|------|--------------------|------|-------|------|
|             |                      | MM/YY | Prod | Gas                | Oil  | Water | Stat |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 97 | 30   | 4025               |      | 79    | F    |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 97 | 31   | 3686               |      | 108   | F    |
| 30 45 28067 | GALLEGOS CANYON UNIT | 08 97 | 31   | 3244               |      | 55    | F    |
| 30 45 28067 | GALLEGOS CANYON UNIT | 09 97 | 30   | 1773               |      | 101   | F    |
| 30 45 28067 | GALLEGOS CANYON UNIT | 10 97 | 31   | 3485               |      | 152   | F    |
| 30 45 28067 | GALLEGOS CANYON UNIT | 11 97 | 30   | 3076               |      | 109   | F    |
| 30 45 28067 | GALLEGOS CANYON UNIT | 12 97 | 31   | 4314               |      | 201   | F    |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD :  
OG6IPRDONGARD  
INQUIRE PRODUCTION BY POOL/WELL11/18/02 16:50:08  
OGOMES -TPGA  
Page No: 4

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY

Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)

API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prodn. Days<br>MM/YY Prod | Production Volumes<br>Gas Oil Water | Well<br>Stat |
|-------------|----------------------|---------------------------|-------------------------------------|--------------|
| 30 45 28067 | GALLEGOS CANYON UNIT | 01 98 31                  | 4587                                | 317 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 02 98 28                  | 3347                                | 215 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 03 98 31                  | 4069                                | 265 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 04 98 30                  | 3978                                | 299 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 98 31                  | 3734                                | 187 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 98 30                  | 3543                                | 223 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 98 31                  | 3438                                | 188 F        |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

|           |          |           |              |             |              |
|-----------|----------|-----------|--------------|-------------|--------------|
| PF01 HELP | PF02     | PF03 EXIT | PF04 GoTo    | PF05        | PF06 CONFIRM |
| PF07 BKWD | PF08 FWD | PF09      | PF10 NXTPOOL | PF11 NXTOGD | PF12         |





CMD : ONGARD 11/18/02 16:50:10  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPGA  
Page No: 6

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prod. | Days | Production Volumes | Well  |
|-------------|----------------------|-------|------|--------------------|-------|
|             |                      | MM/YY | Prod | Gas Oil Water      | Stat  |
| 30 45 28067 | GALLEGOS CANYON UNIT | 03 99 | 31   | 1297               | 155 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 04 99 | 30   | 1598               | 227 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 99 | 31   | 287                | 140 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 99 | 30   |                    | 165 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 99 | 19   |                    | 87 F  |
| 30 45 28067 | GALLEGOS CANYON UNIT | 08 99 | 31   | 1745               | 368 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 09 99 | 30   | 1341               | 199 F |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/18/02 16:50:12  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPGA  
Page No: 7  
OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prodn. Days<br>MM/YY Prod | Production Volumes<br>Gas Oil Water | Well<br>Stat |
|-------------|----------------------|---------------------------|-------------------------------------|--------------|
| 30 45 28067 | GALLEGOS CANYON UNIT | 10 99 31                  | 1021                                | 185 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 11 99 30                  | 1360                                | 180 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 12 99 31                  | 122                                 | 161 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 01 00 31                  |                                     | 207 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 02 00 29                  | 367                                 | 274 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 03 00 31                  | 1537                                | 255 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 04 00 30                  | 688                                 | 220 F        |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD :  
OG6IPRDONGARD  
INQUIRE PRODUCTION BY POOL/WELL11/18/02 16:50:13  
OGOMES -TPGA  
Page No: 8

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY

Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)

API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prodn. Days<br>MM/YY Prod | Production Volumes<br>Gas Oil Water | Well<br>Stat |
|-------------|----------------------|---------------------------|-------------------------------------|--------------|
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 00 31                  |                                     | 130 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 00 29                  | 3719                                | 102 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 00 31                  | 4423                                | 134 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 08 00 31                  | 4298                                | 144 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 09 00 30                  | 4298                                | 84 F         |
| 30 45 28067 | GALLEGOS CANYON UNIT | 10 00 31                  | 4011                                | 242 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 11 00 30                  | 3913                                | 116 F        |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

|           |          |           |              |             |              |
|-----------|----------|-----------|--------------|-------------|--------------|
| PF01 HELP | PF02     | PF03 EXIT | PF04 GoTo    | PF05        | PF06 CONFIRM |
| PF07 BKWD | PF08 FWD | PF09      | PF10 NXTPOOL | PF11 NXTOGD | PF12         |



CMD :  
OG6IPRDONGARD  
INQUIRE PRODUCTION BY POOL/WELL11/18/02 16:50:14  
OGOMES -TPGA  
Page No: 9

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY

Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)

API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prod. | Days | Production Volumes | Well  |
|-------------|----------------------|-------|------|--------------------|-------|
|             |                      | MM/YY | Prod | Gas Oil Water      | Stat  |
| 30 45 28067 | GALLEGOS CANYON UNIT | 12 00 | 31   | 4548               | 112 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 01 01 | 31   | 3878               | 149 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 02 01 | 28   | 3979               | 176 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 03 01 | 31   | 4226               | 154 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 04 01 | 30   | 3764               | 173 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 01 | 31   | 3176               | 165 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 01 | 30   | 2305               | 93 F  |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

|           |          |           |              |             |              |
|-----------|----------|-----------|--------------|-------------|--------------|
| PF01 HELP | PF02     | PF03 EXIT | PF04 GoTo    | PF05        | PF06 CONFIRM |
| PF07 BKWD | PF08 FWD | PF09      | PF10 NXTPOOL | PF11 NXTOGD | PF12         |

CMD : ONGARD 11/18/02 16:50:16  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPGA  
Page No: 10

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prod. | Days | Production Volumes | Well  |
|-------------|----------------------|-------|------|--------------------|-------|
|             |                      | MM/YY | Prod | Gas Oil Water      | Stat  |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 01 | 31   | 2591               | 128 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 08 01 | 31   | 2989               | 148 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 09 01 | 30   | 2818               | 156 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 10 01 | 31   | 3088               | 152 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 11 01 | 30   | 2877               | 108 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 12 01 | 31   | 3147               | 134 F |
| 30 45 28067 | GALLEGOS CANYON UNIT | 01 02 | 31   | 3168               | 109 F |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/18/02 16:50:17  
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPGA  
 Page No: 11

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
 Pool Identifier : 79680 KUTZ PICTURED CLIFFS, WEST (GAS)  
 API Well No : 30 45 28067 Report Period - From : 01 1993 To : 10 2002

| API Well No | Property Name        | Prodn. Days<br>MM/YY Prod | Production Volumes<br>Gas Oil Water | Well<br>Stat |
|-------------|----------------------|---------------------------|-------------------------------------|--------------|
| 30 45 28067 | GALLEGOS CANYON UNIT | 02 02 28                  | 2565                                | 107 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 03 02 31                  | 2132                                | 115 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 04 02 30                  | 1663                                | 129 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 05 02 31                  | 2734                                | 116 F        |
| 30 45 28067 | GALLEGOS CANYON UNIT | 06 02 30                  | 2266                                | 69 F         |
| 30 45 28067 | GALLEGOS CANYON UNIT | 07 02 31                  | 1994                                | 72 F         |
| 30 45 28067 | GALLEGOS CANYON UNIT | 08 02 29                  | 2153                                | 118 F        |

Reporting Period Total (Gas, Oil) : 242047 11837

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

New Mexico State Office

1474 Rodeo Rd.

P.O. Box 27115

Santa Fe, New Mexico 87502-0115



IN REPLY REFER TO:  
3160 (921)

NGPA Location: 435 Montano Road NE, Albuquerque, NM 87107-4935

CERTIFIED MAIL NO. P 071 878 832  
RETURN RECEIPT REQUESTED

September 10, 1993

Marilyn L. Rand, Director  
Division of Producer Regulation  
Federal Energy Regulatory Commission  
825 North Capitol Street NE  
Washington, DC 20426

Dear Ms. Rand:

This jurisdictional agency hereby designates the Pictured Cliffs formation underlying the following described lands in the Loe Area Fulcher-Kutz Pictured Cliffs Pool located in San Juan County, New Mexico, as a tight formation, assigned BLM Docket No. NM-1817-92, under Section 107 of the NGPA:

Township 29 North, Range 12 West, NMPM

Sections 15, 16, and 23: All

The total area encompasses 1,902 acres, more or less, consisting of 12.6% Fee, 33.6% State, and 53.8% Federal Lands.

A copy of this designation is being furnished to the New Mexico Oil Conservation Division.

The applicant is Texaco Exploration and Production Inc., 3300 North Butler, Farmington, New Mexico 87401. The application was prepared by Rose Exploration Inc., 518 17th Street, Suite 740, Denver, Colorado 80202.

Existing Federal and State of New Mexico Regulations administered by the U.S. Bureau of Land Management and the New Mexico Oil Conservation Division relating to drilling, casing, and cementing of wells are in effect to help assure that development of the Pictured Cliffs formation will not adversely affect or impair any fresh water aquifers.

The estimated average in-situ gas permeability, throughout the pay section, is expected to be 0.1 millidarcy or less.



The stabilized production rate, against atmospheric pressure, of wells completed for production in the Pictured Cliffs formation, without stimulation, is not expected to exceed the maximum production rate contained in the FERC tight formation guidelines.

No well drilled into the designated tight formation is expected to produce, without stimulation, more than five barrels of crude oil per day.

The formation or any portion thereof has not been authorized to be developed by infill drilling.

The applicant does not seek to qualify gas produced from the tight formation for the incentive price.

Evidence was presented by the applicant to the BLM and the New Mexico Oil Conservation Division. The exhibits and other documentation discussed are enclosed. The BLM Tight Formation Review Report (Engineering and Geological) consisting of 3 pages and 34 pages of exhibits is enclosed.


Included with this designation is a letter dated September 7, 1993, from the Chief Hearing Officer/Engineer, New Mexico Oil Conservation Division signifying their concurrence with this designation.

It is requested that this jurisdictional agency be advised in writing when the 45 day review period will end and the appropriate FERC State No. (NM-\_\_) assigned to this tight formation be included.

Persons objecting to this determination may file a protest directly with the Federal Energy Regulatory Commission, in accordance with 18 CFR Part 275.203 and 275.204, within 20 days after the notice is published in the Federal Register by the FERC.

If you have any questions please contact Allen F. Buckingham (505) 761-8765 or FAX (505) 761-8911.

Sincerely yours,

  
for Deputy State Director  
Lands and Minerals

Enclosures

cc:

Texaco E&P Inc., Farmington (Ted A. Tipton) (w/BLM Report)

Texaco E&P Inc., Houston (Julie Gibbs)

Rose Exploration Inc. (Mike Wynne) (w/BLM Report)

New Mexico Oil Conservation Div. (Michael Stogner) (w/BLM Report)

WO-610 (Donnie Shaw)

NM-921 (Steve Salzman)

NM-011 (Tom Hewitt/NGPA Liaison)

OIL CONSERVATION DIVISION  
RECEIVED  
SEP 14 11 08 AM '94



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

September 7, 1993

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

Allen F. Buckingham  
U.S. Bureau of Land Management  
Albuquerque District Office  
435 Montano, N.E.  
Albuquerque, New Mexico 87107

Dear Mr. Buckingham:

Enclosed are two signed original letters of concurrence for Texaco Exploration and Production Inc.'s Pictured Cliffs tight formation area designated the "Loe (Pictured Cliffs) Area" underlying the following described lands in San Juan County, New Mexico:

TOWNSHIP 29 NORTH, RANGE 12 WEST, NMPM

|                     |     |
|---------------------|-----|
| Sections 15 and 16: | All |
| Section 23:         | All |

Please submit one copy to Ms. Marilyn L. Rand along with your determination to the FERC.

Should you have any questions or require additional information, please contact me at (505) 827-5811.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner".

MICHAEL E. STOGNER  
Chief Hearing Officer/Engineer

MES/ms



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

September 7, 1993

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

Marilyn L. Rand, Director  
Division of Producer Regulation  
Federal Energy Regulatory Commission  
825 N. Capitol Street, N.E.  
Washington, DC 20426

---

Allen F. Buckingham  
U.S. Bureau of Land Management  
Albuquerque District Office  
435 Montano, N.E.  
Albuquerque, New Mexico 87107

Dear Ms. Rand and Mr. Buckingham:

This letter is to be included with the submission of the U.S. Bureau of Land Management (USBLM) designation, assigned Docket No. NM-1817-92, to the Federal Energy Regulatory Commission (FERC). Said designation is for a "tight formation" in the State of New Mexico. The formation referred to is the Pictured Cliffs formation in portions of the designated and Undesignated West Kutz-Pictured Cliffs Pool and the designated and Undesignated Fulcher Kutz-Pictured Cliffs Pool herein designated the "Loe (Pictured Cliffs) Area" comprising 1,902 acres, more or less, (53.8% federal, 33.6% state, and 12.6% fee) all in San Juan County, New Mexico.

The New Mexico Oil Conservation Division as the jurisdictional agency over such matters on State and Fee lands in New Mexico has received and reviewed the copies of the application and supporting geological and technical data submitted by the applicant in this matter, Texaco Exploration and Production, Inc. Further, this jurisdictional agency concurs with the USBLMs findings and hereby supports the designation of said area as a recognized "tight formation" under Section 107 of the Natural Gas Policy Act of 1978.

Marilyn L. Rand, Director  
Allen F. Buckingham  
September 7, 1993  
Page 2

Should you have any questions or require additional information from the Division, please contact me at (505) 827-5811.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner", with a long, sweeping horizontal flourish extending to the right.

MICHAEL E. STOGNER  
Chief Hearing Officer/Engineer

MES/ms

cc: Oil Conservation Division - Aztec  
Texaco Exploration & Production, Inc. - Midland, TX (J. Gibbs)  
U.S. Bureau of Land Management - Santa Fe (Steve Salzman)  
Rose Exploration - Denver, CO (M.E. Wynne)



Commission within 60 days from the issuance date of this notice. (November 1, 1993 for Project No. 1922-008.) All reply comments must be filed with the Commission within 105 days from the date of this notice. (December 16, 1993 for Project No. 1922-008.)

Anyone may obtain an extension of time for these deadlines from the Commission only upon a showing of good cause or extraordinary circumstances in accordance with 18 CFR 385.2008.

All filings must (1) bear in all capital letters the title "COMMENTS", "REPLY COMMENTS", "RECOMMENDATIONS," "TERMS AND CONDITIONS," or "PRESCRIPTIONS;" (2) set forth in the heading the name of the applicant and the project number of the application to which the filing responds; (3) furnish the name, address, and telephone number of the person submitting the filing; and (4) otherwise comply with the requirements of 18 CFR 385.2001 through 385.2005. All comments, recommendations, terms and conditions or prescriptions must set forth their evidentiary basis and otherwise comply with the requirements of 18 CFR 4.34(b). Any of these documents must be filed by providing the original and the number of copies required by the Commission's regulations to: The Secretary, Federal Energy Regulatory Commission, 825 North Capitol Street, NE., Washington, DC 20426. An additional copy must be sent to Director, Division of Project Review, Office of Hydropower Licensing, Federal Energy Regulatory Commission, room 1027, at the above address. Each filing must be accompanied by proof of service on all persons listed on the service list prepared by the Commission in this proceeding, in accordance with 18 CFR 4.34(b), and 385.2010.

Dated: September 14, 1993, Washington, DC.

Lois D. Cashell;

Secretary.

[FR Doc. 93-22839 Filed 9-17-93; 8:45 am]

BILLING CODE 6717-01-M

[Docket No. JD93-14460T New Mexico-55]

**United States Department of the Interior, Bureau of Land Management; NGPA Notice of Determination by Jurisdictional Agency Designating Tight Formation**

September 14, 1993.

Take notice that on September 13, 1993, the United States Department of the Interior's Bureau of Land Management (BLM) submitted the

above-referenced notice of determination pursuant to § 271.703(c)(3) of the Commission's regulations, that the Pictured Cliffs Formation underlying certain lands in the Loe Area Fulcher-Kutz Pictured Cliffs Pools located in San Juan County, New Mexico, qualifies as a tight formulation under section 107(b) of the Natural Gas Policy Act of 1978. The area of application covers approximately 1,902 acres, more or less, consisting of 12.6% Fee, 33.6% State, and 53.8% Federal Lands. The recommended area is described as follows:

Township 29 North, Range 12 West

Sections 15-16: All

Section 23: All

The notice of determination also contains BLM's and the State of New Mexico's findings that the referenced portion of the Pictured Cliffs Formation meets the requirements of the Commission's regulations set forth in 18 CFR part 271.

The application for determination is available for inspection, except for material which is confidential under 18 CFR 275.206, at the Federal Energy Regulatory Commission, 825 North Capitol Street, NE., Washington, DC 20426. Persons objecting to the determination may file a protest, in accordance with 18 CFR 275.203 and 275.204, within 20 days after the date this notice is issued by the Commission.

Lois D. Cashell,

Secretary.

[FR Doc. 93-22832 Filed 9-17-93; 8:45 am]

BILLING CODE 6717-01-M

[Docket Nos. CP93-622-000, et al.]

**Tennessee Gas Pipeline Co., et al.; Natural Gas Certificate Filings**

September 13, 1993.

Take notice that the following filings have been made with the Commission:

**1. Tennessee Gas Pipeline Co.**

[Docket No. CP93-622-000]

Take notice that on August 6, 1993, Tennessee Gas Pipeline Company (Tennessee), P.O. Box 2511, Houston, Texas 77252, filed in Docket No. CP93-622-000, an application pursuant to Section 7(b) of the Natural Gas Act for permission and approval to abandon a firm transportation service to Columbia Gas Transmission Corporation (Columbia) under Tennessee's Rate Schedule T-20, all as more fully set forth in the application on file with the Commission and open to public inspection.

No facilities are proposed to be abandoned herein.

*Comment date:* October 4, 1993, in accordance with Standard Paragraph F at the end of this notice.

**2. U-T Offshore System**

[Docket No. CP93-693-000]

Take notice that on August 30, 1993, U-T Offshore System, (U-TOS) P.O. Box 1396, Houston, Texas 77251, filed in Docket No. CP93-693-000 an application pursuant to Section 7(b) of the Natural Gas Act (NGA), as amended, and the Rules and Regulations of the Federal Energy Regulatory Commission (Commission), for authorization to abandon transportation service currently being rendered for CNG Transmission Corporation (CNG), all as more fully set forth in the application which is on file with the Commission and open to public inspection.

U-TOS proposes to terminate 36,417 Mcf per day in currently effective firm transportation service it renders for CNG according to U-TOS' Rate Schedule T-5. U-TOS also proposes to terminate 70,000 Mcf per day in associated Interruptible Overrun Transportation Service volumes rendered according to its Rate Schedule I. Service for CNG was certificated in Docket No. CP76-118 by order issued June 12, 1978, 3 FERC ¶ 61,232 (1978). U-TOS states that according to timely notice given to it by CNG's letter dated July 26, 1993, it proposes to terminate these services effective August 9, 1994—the end of the primary term of an agreement between U-TOS and CNG dated May 1, 1978, and designated as U-TOS' Rate Schedule T-5.

U-TOS states that it proposes no abandonment of facilities. U-TOS states that it anticipates no adverse impact on its supply of natural gas or transportation services as a result of the requested abandonment.

*Comment date:* October 4, 1993, in accordance with Standard Paragraph F at the end of this notice.

**3. U-T Offshore System**

[Docket No. CP93-694-000]

Take notice that on August 30, 1993, U-T Offshore System (U-TOS), P.O. Box 1396, Houston, Texas 77251, filed in Docket No. CP93-694-000 an application pursuant to Section 7(b) of the Natural Gas Act (NGA), as amended, and the Rules and Regulations of the Federal Energy Regulation Commission (Commission), for authorization to abandon transportation service currently being rendered for United Gas Pipe Line Company (United), all as more fully set forth in the application

OIL CONSERVATION DIVISION  
REC'D

FEDERAL ENERGY REGULATORY COMMISSION

'93 DE 13 AM 8 58

WASHINGTON, D. C. 20426

In reply refer to:  
PR25.2/MFP

December 7, 1993

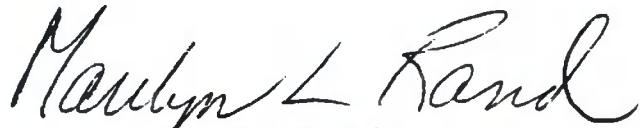
Allen F. Buckingham  
Natural Gas Regulatory Specialist  
Division of Mineral Resources  
Bureau of Land Management  
Albuquerque District Office (NGPA)  
435 Montano Road, NE  
Albuquerque, NM 87107

Re: Tight Formation Determination  
New Mexico-55  
Pictured Cliffs Formation  
San Juan County, New Mexico  
FERC No. JD93-14460T  
BLM Docket No. NM-1817-92

Dear Mr. Buckingham:

The 45-day period for Commission review of this notice of determination expired October 28, 1993, and the determination is final. Accordingly, the Pictured Cliffs Formation underlying Sections 15, 16 and 23 in T29N, R12W, in San Juan County, New Mexico has been approved for tight formation designation.

Sincerely,



Marilyn L. Rand, Director  
Division of Producer Regulation

cc: William J. LeMay, Director  
Oil Conservation Division  
New Mexico Department of Energy, Minerals,  
and Natural Resources  
P. O. Box 2088  
Santa Fe, New Mexico 87504

Texaco Exploration and Production, Inc.  
3300 North Butler  
Farmington, NM 87401

**Stogner, Michael**

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**To:** Mary Corley (E-mail); Marilyn Rand (E-mail); Marilyn Rand (FERC-DC) (E-mail)  
**Subject:** NGPA Well Determinations

November 25, 2002

Re: Applications for NGPA Section 107 well category determinations: (i) Bunce Com. Well No. 1 (API No. 30-045-24431) filed September 19, 2001 for tight formation gas, approved by the Division on November 18, 2002 as TF-02-004; (ii) Gallegos Canyon Unit Well No. 506 (API No. 30-045-28067) filed September 19, 2001 for tight formation gas, approved by the Division on November 18, 2002 as TF-02-005; (iii) Heaton Gas Com. "LS" Well No. 9-A (API No. 30-045-24988) filed September 19, 2001 for occluded coal seam gas, approved by the Division on November 19, 2002 as CS-02-002; (iv) Heaton Gas Com. "LS" Well No. 9-A (API No. 30-045-24988) filed September 19, 2001 for tight formation gas, approved by the Division on November 19, 2002 as TF-02-006; and (v) Gallegos Canyon Unit Well No. 323 (API No. 30-045-24615) filed on September 19, 2001 for occluded coal seam gas, approved by the Division on November 20, 2002 as CS-02-003.

Ms. Corley,

The five above-described NGPA well determination filings were recently processed by the Division and subsequently submitted to the FERC for final review. I however just realized that these applications did not contain the required FERC Form-121 (see attachment). I suggest you complete and submit them to Ms. Marilyn Rand with the FERC in Washington directly (see address below). Please provide me a xeric copy so that my copy of these applications will also be complete. I apologize for this inconvenience.

I am also sending you a hard copy of this e-mail in case there is a problem in its transmission.

Office of the Secretary  
Federal Energy Regulatory Commission  
Attention: Marilyn Rand  
888 First Street, N.E.  
Washington, DC 20426



FERC Form-121.pdf

**A. THE NGPA WELL CATEGORY DETERMINATION IS BEING SOUGHT FOR A WELL PRODUCING:**

- A1 \_\_\_ occluded natural gas from coal seams.  
A2 \_\_\_ natural gas from Devonian shale.  
A3 \_\_\_ natural gas from a designated tight formation.

**B. FOR ALL APPLICATIONS FOR DETERMINATION PROVIDE THE FOLLOWING:**

1. Well Name and No.\*
2. Completed in (Name of Reservoir) \*
3. Field \*
4. County \*
5. State \*
6. API Well No. (14 digits maximum. If not assigned, leave blank.)

9. Measured Depth of the Completed Interval (in feet)  
TOP \_\_\_\_\_ BASE \_\_\_\_\_

**C. APPLICANT'S MAILING ADDRESS AND THE IDENTITY OF THE PERSON WHO IS RESPONSIBLE FOR APPLICATION:**

1. Applicant's Name \*
2. Street \*
3. City \*
4. State\* 5. Zip Code
6. Name of Person Responsible \*
7. Title of Such Person \*
8. Signature \_\_\_\_\_ and Phone No. ( )

\* SIGNIFIES THAT LINE ENTRY MAY CONTAIN UP TO 35 LETTERS AND/OR NUMBERS.

Attachment 2-2 \_



(1/2000)

**FERC Form-121 Federal Energy Regulatory Commission Form Approved**  
**Washington D.C.** **OMB No. 1902-0038**  
**(Expires 9/30/03)**

**APPLICATION FOR DETERMINATION**

**GENERAL INSTRUCTIONS**

- 1. Purpose:** This form is to be used to provide basic data on each application for a well category determination that is filed with a Jurisdictional Agency to qualify the natural gas produced from such well as (a) occluded natural gas produced from coal seams, under section 107(c)(3) of the Natural Gas Policy Act of 1978 [15 U.S.C. 3301] (NGPA), (b) natural gas produced from Devonian shale, under section 107(c)(4) of the NGPA, or (c) natural gas produced from a designated tight formation, under section 107(c)(5) of the NGPA, in order to substantiate the eligibility of such natural gas for a tax credit under Section 29 of the Internal Revenue Code. The Commission will use this data, together with the other information contained in the Jurisdictional Agency's notice of determination, to evaluate whether substantial evidence exists to support the determination.
- 2. Who must submit:** Anyone who files an application with a Jurisdictional Agency identified under Section 270.401 of the Commission's Regulations for a well category determination.
- 3. What and where to submit:** The original of this form, and all of the information required by Section 270.302, 270.303, 270.304, or 270.306 of the Commission's Regulations must be filed with the Jurisdictional Agency. The Jurisdictional Agency making a determination must file the original of this form, with all of the other information required under the applicable Commission Regulations, with the **Office of the Secretary, Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426**. Applicants should retain one copy of each completed form for their files for 4 years.
- 4. These are mandatory filing requirements.**
- 5. The data on this form are not considered confidential and will not be treated as such.**
- 6. Where to send comments on the public reporting burden:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any aspect of this collection of information, including suggestions for reducing this burden, to the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426 (Attention: Mr. Michael Miller, CI-1) and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503 (Attention: Desk Officer for the Federal Energy Regulatory Commission). Persons subject to providing this information will not be penalized for failing to respond to these collections of information unless the collection of information displays a valid OMB control number.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**

Governor

**BETTY RIVERA**

Cabinet Secretary

**Lori Wrotenberg**

Director

**Oil Conservation Division**

November 19, 2002

Office of the Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, DC 20426  
Attn: Marilyn Rand

**RE: Amoco Production Company  
Bunce Com No. 1  
Gallegos Canyon Unit No. 506**

**Conoco Inc.  
San Juan 28-7 Unit No. 165M  
State Com AI No. 33E  
State Com K No. 7R  
State N No. 1**

Ms. Rand:

Enclosed are your copies of the approved NGPA applications for the above applicants.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Valdes".

Kathy Valdes

Enclosure

TF-02-005

Form C-132 - Revised 10/1/86

## State of New Mexico

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

2040 Pacheco St.

Santa Fe, NM 87505

1220 S. St. Francis Dr.

FOR DIVISION

USE ONLY:

APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION

APPROPRIATE FILING FEE(S) ENCLOSED? YES ☒ NO ☐DATE COMPLETE APPLICATION FILED Sept. 19, 2001DATE DETERMINATION MADE Nov. 18, 2002WAS APPLICATION CONTESTED? YES ☐ NO ☒NAME(S) OF INTERVENORS(S), IF ANY: NA

- FILING FEE(S) -  
Effective October 1, 1986,  
a non-refundable filing fee of  
\$25.00 per category for each  
application is mandatory. (Rule  
2, Order No. R-5878-8-3)

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil &amp; Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Gallegos Canyon Unit

9. Well No.

506

10. Field and Pool, or Wildcat

Kutz

Pictured Cliffs West

12. County

San Juan

2. Name of Operator

Amoco Production Company

3. Address of Operator

P.O. Box 3092

Houston TX 77253

4. Location of Well

UNIT LETTER LLOCATED 1465

FEET FROM THE

SOUTH LINE

AND

1095

FEET FROM THE

WESTLINE OF SEC. 16TWS. 29NRGE. 12W

NMPM

11. Name and Address of Purchaser(s)

Paso Field Services

Check appropriate box for category sought and information submitted. Enter required information on lines 1 and 2, below.

1. Category(ies) sought (By NGPA Section No.)

2. Filing Fee(s) Amount Enclosed: \$ 25.00

3. All applications must contain:

- a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
- b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
- c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
- d. AFFIDAVITS OF MAILING OR DELIVERY

4. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules of Applications for Wellhead Price Ceiling Category Determinations" as follows:

A. NEW NATURAL GAS UNDER SEC. 102 (c) (1) (B) (using 2.5 Mile or 1000 Feet Deeper Test)

☐ All items required by Rule 14 (1) and/or Rule 14 (2)

B. NEW NATURAL GAS UNDER SEC. 102 (c) (1) (C) (new onshore reservoir)

☐ All items required by Rule 15

C. NEW ONSHORE PRODUCTION WELL UNDER SEC. 103

☐ All items required by Rule 16a OR Rule 16B

D. SEC. 107 HIGH COST NATURAL GAS (TIGHT FORMATION, DEEP, COAL SEAM, AND PRODUCTION ENHANCEMENT) UNDER SEC. 103

☒ All items required by Rule 17 (1), Rule 17 (2), Rule 17 (4), or Rule 17 (5)

E. STRIPPER WELL NATURAL GAS UNDER SEC. 108

☐ All items required by Rule 18

HEREBY CERTIFY THAT THE INFORMATION CONTAINED  
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE AND BELIEF.

Mary Corley

NAME OF APPLICANT (TYPE OR PRINT)

SIGNATURE OF APPLICANT

Title Senior Regulatory AnalystDate September 5, 2001

FOR DIVISION USE ONLY

☒ Approved☐ Disapproved

The information contained herein includes all of the information required  
to be filed by the applicant under Subpart 8 of Part 274 of the FERC  
regulation

EXAMINER

API No. 30-045-28067