



(9)

**Amoco Exploration and Production
U.S.A. Operations Group**

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

P. M. Jarrell
Resource Manager, Bravo Dome

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

File: PMJ - 4270 - 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 2135 Well No. 302M
Union County, New Mexico

Dear Mr. Johnson:

Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 2135 Well No. 302M to be drilled at a location 482 feet from the south line and 255 feet from the west line of Section 30, Township 21N, Range 35E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

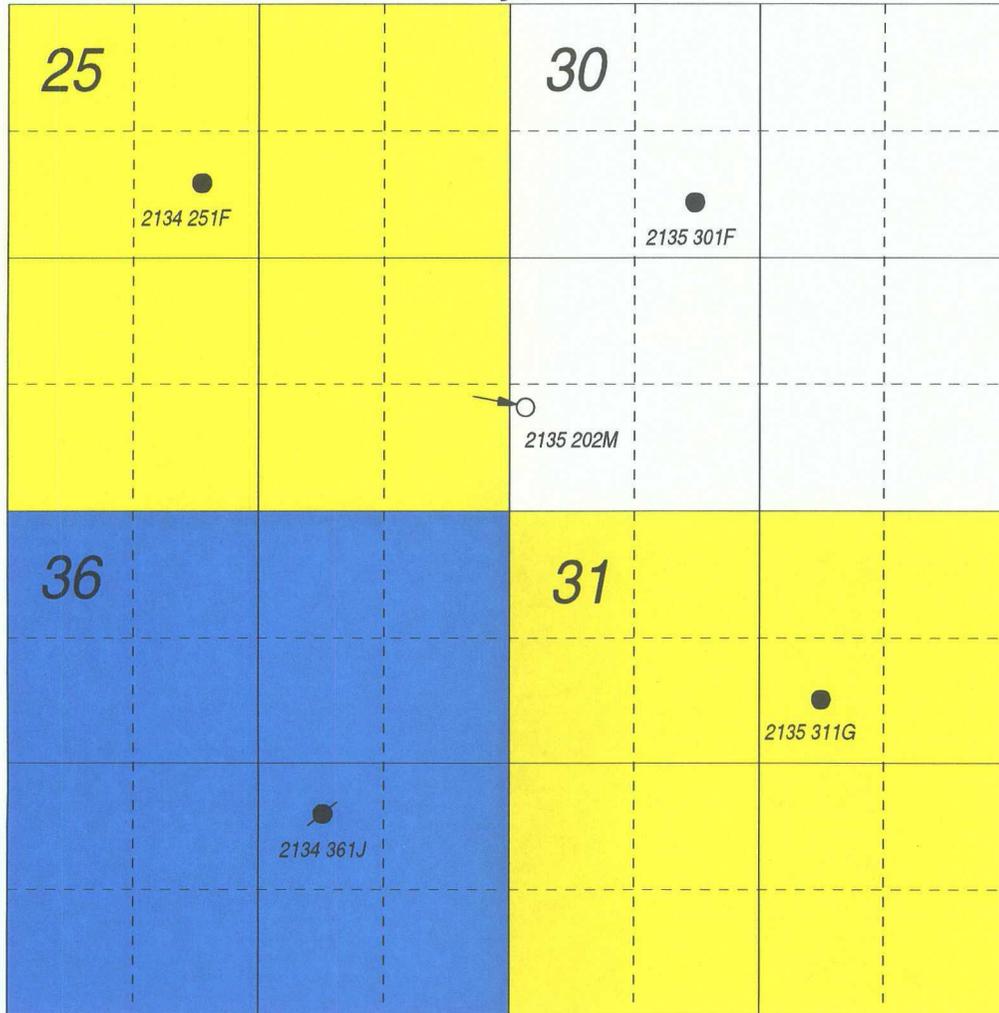
Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

Your attention to this request is appreciated.

Very truly yours,

Enclosure

Bravo Dome Well No. 2135 302M
482' FSL x 255' FWL
Section 30, Township 21N, Range 35E
Union County, New Mexico



Amoco Lease
(One PxA well on Section 36)



Amoco Operated
(One well on Sections 25 & 31)

Exhibit A

Sec : 30 Twp : 21N Rng : 35E Section Type : NORMAL

1 38.49 Fee owned U A	C 40.00 Fee owned U	B 40.00 Fee owned U	A 40.00 Fee owned U
2 38.59 Fee owned U	F 40.00 Fee owned U A	G 40.00 Fee owned U	H 40.00 Fee owned U

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

240.00
77.08

317.08
317.48

634.56

Sec : 30 Twp : 21N Rng : 35E Section Type : NORMAL

3 38.69 Fee owned U	K 40.00 Fee owned U	J 40.00 Fee owned U	I 40.00 Fee owned U
4 38.79 Fee owned U	N 40.00 Fee owned U	O 40.00 Fee owned U	P 40.00 Fee owned U

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

240
77.48
317.48

OGRID Idn : 778 API Well No: 30 59 20321 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-06-1995
PO BOX 21178
TULSA,OK 74121

2135

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 301

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn : F	30	21N	35E				FTG 2022 F N	FTG 1964 F W
OCD U/L : F		API	County	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4738

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2330 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:05:08
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20321 Well No : 301
Surface Locn - UL : F Sec : 30 Twp : 21N Range : 35E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:05:22
OGOMES -EMG1

API Well No : 30 59 20321 Eff Date : 06-06-1995 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 301
GL Elevation: 4738

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: F	30	21N	35E	FTG 2022 F N	FTG 1964 F W	P

Lot Identifier:

Dedicated Acre:

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:04:41
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20363 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 302

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn :	1	30	21N	35E			FTG 482 F S	FTG 255 F W
OCD U/L :	M		API County :	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4741

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:04:26
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20363 Well No : 302
Surface Locn - UL : 1 Sec : 30 Twp : 21N Range : 35E Lot Idn :
Multiple comp (S/M/C): N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:04:49
OGOMES -EMG1

API Well No : 30 59 20363 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : / 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 302
GL Elevation: 4741

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn	: 1	30	21N	35E	FTG 482 F S	FTG 255 F W	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



(b)

**Amoco Exploration and Production
U.S.A. Operations Group**

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

**P. M. Jarrell
Resource Manager, Bravo Dome**

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

File: PMJ - 4265 - 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 2234 Well No. 282P
Union County, New Mexico

Dear Mr. Johnson:

Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 2234 Well No. 282P to be drilled at a location 862 feet from the south line and 372 feet from the east line of Section 28, Township 22N, Range 34E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

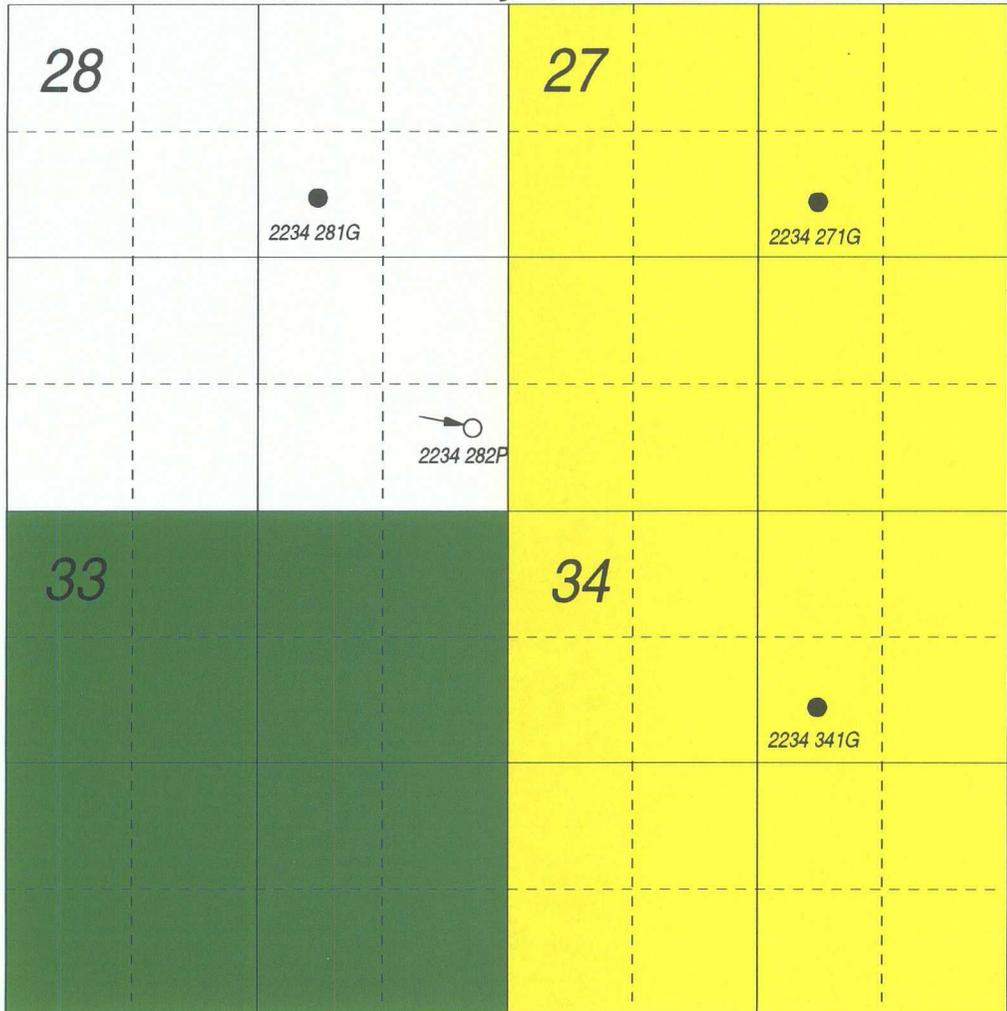
Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

Your attention to this request is appreciated.

Very truly yours,

Enclosure

Bravo Dome Well No. 2234 282P
862' FSL x 372' FEL
Section 28, Township 22N, Range 34E
Union County, New Mexico



Amerada Hess Lease
Committed to Bravo Dome Unit
(No well on lease)



Amoco Operated
(One well on each Section)

Exhibit A

Sec : 28 Twp : 22N Rng : 34E Section Type : NORMAL

D 40.00 CS L06249 05/81 AMOCO PRODUCTION U	C 40.00 CS L06249 05/81 AMOCO PRODUCTION U	B 40.00 Fee owned U	A 40.00 CS L06249 05/81 AMOCO PRODUCTION U
E 40.00 CS L06249 05/81 AMOCO PRODUCTION U	F 40.00 Fee owned U	G 40.00 Fee owned U A	H 40.00 CS L06249 05/81 AMOCO PRODUCTION U

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

Sec : 28 Twp : 22N Rng : 34E Section Type : NORMAL

L 40.00 CS L06249 05/81 AMOCO PRODUCTION U	K 40.00 Fee owned U	J 40.00 CS L06249 05/81 AMOCO PRODUCTION U	I 40.00 CS L06249 05/81 AMOCO PRODUCTION U
M 40.00 CS L06249 05/81 AMOCO PRODUCTION U	N 40.00 CS L06249 05/81 AMOCO PRODUCTION U	O 40.00 CS L06249 05/81 AMOCO PRODUCTION U	P 40.00 CS L06249 05/81 AMOCO PRODUCTION U A

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

CMD :
QG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:02:34
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20334 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-06-1995
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 281

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: G	28	22N	34E			FTG 1700 F N	FTG 1924 F E
OCD U/L	: G		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4784

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2310 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
QG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:02:26
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20334 Well No : 281
Surface Locn - UL : G Sec : 28 Twp : 22N Range : 34E Lot Idn :
Multiple comp (S/M/C): N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
QG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:02:41
OGOMES -EMG1

API Well No : 30 59 20334 Eff Date : 09-22-1995 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 281
GL Elevation: 4784

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: G	28	22N	34E	FTG 1700 F N	FTG 1924 F E	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 . :
QG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 13:06:38
OGOMES -EME1

OGRID Idn : 778 API Well No: 30 59 20364 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 282

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn : P	28		22N	34E			FTG 862 F S	FTG 372 F E
OCD U/L : P			API County :	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4780

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 13:06:28
OGOMES -EME1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20364 Well No : 282
Surface Locn - UL : P Sec : 28 Twp : 22N Range : 34E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
QG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 13:06:46
OGOMES -EME1

API Well No : 30 59 20364 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 282
GL Elevation: 4780

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	28	22N	34E	FTG 862 F S	FTG 372 F E	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



OIL CONSERVATION DIVISION
RECEIVED

96 MAY 24 11 08 52

Amoco Exploration and Production
U.S.A. Operations Group

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

(C)

P. M. Jarrell
Resource Manager, Bravo Dome

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

File: PMJ - 4271 - 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 1835 Well No. 232D)
Union County, New Mexico

Dear Mr. Johnson:

(640 well)

Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 1835 Well No. 232D to be drilled at a location 204 feet from the north line and 1195 feet from the west line of Section 23, Township 18N, Range 35E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

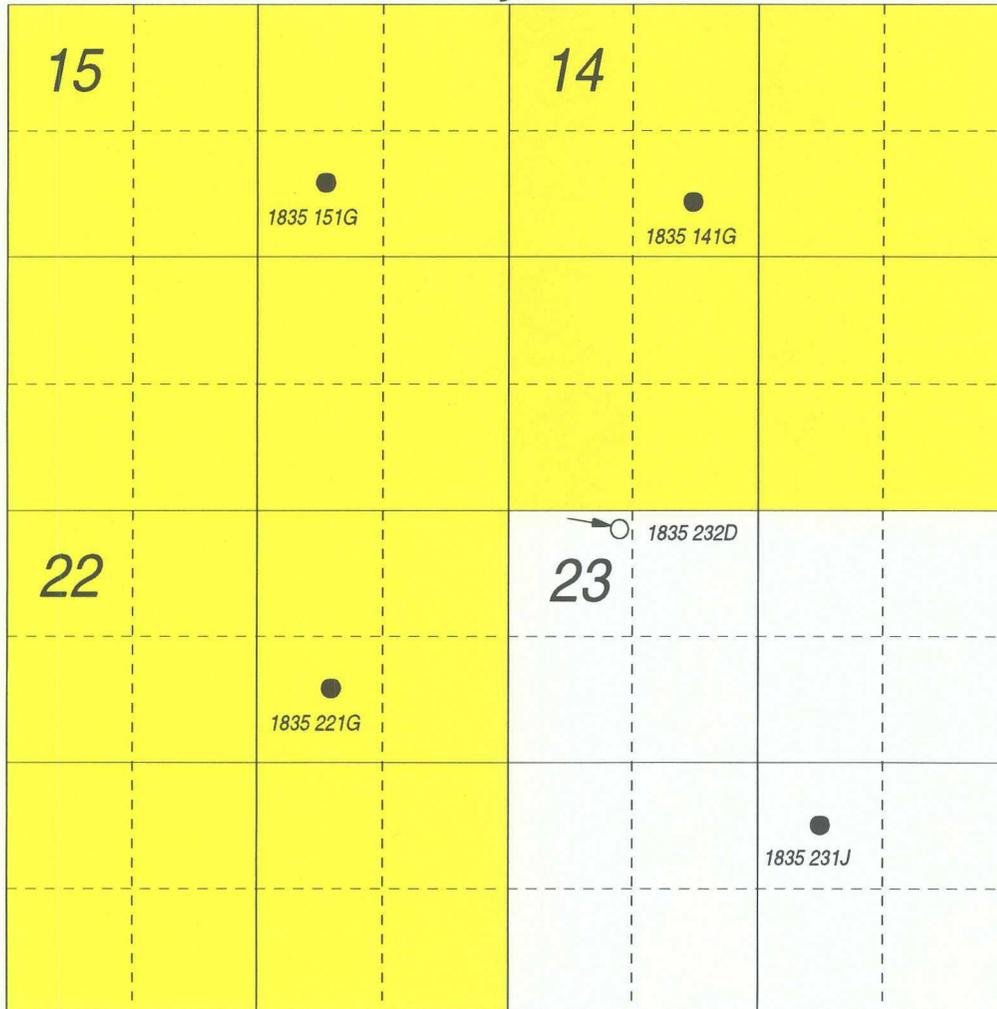
Your attention to this request is appreciated.

Very truly yours,

Perry M. Jarrell

Enclosure

Bravo Dome Well No. 1835 232D
204' FNL x 1195' FWL
Section 23, Township 18N, Range 35E
Union County, New Mexico



Amoco Operated
(One well on each Section)

Exhibit A

Sec : 23 Twp : 18N Rng : 35E Section Type : NORMAL

D 40.00	C 40.00	B 40.00	A 40.00
Fee owned U A	Fee owned U	Fee owned U	Fee owned U
E 40.00	F 40.00	G 40.00	H 40.00
Fee owned U	Fee owned U	Fee owned U	Fee owned U

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

Sec : 23 Twp : 18N Rng : 35E Section Type : NORMAL

L 40.00	K 40.00	J 40.00	I 40.00
Fee owned U	Fee owned U	Fee owned U A	Fee owned U
M 40.00	N 40.00	O 40.00	P 40.00
Fee owned U	Fee owned U	Fee owned U	Fee owned U

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

CMD :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:00:48
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20281 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 12-01-1985
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 231

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn : J	23	18N	35E				FTG 1650 F S	FTG 1650 F E
OCD U/L : J		API	County	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4550

State Lease No: Multiple Comp (Y/N) : S
Prpsd Depth : 2900 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARĐ
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:00:40
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20281 Well No : 231
Surface Locn - UL : J Sec : 23 Twp : 18N Range : 35E Lot Idn :
Multiple comp (S/M/C) : S TVD Depth (Feet) : 99999 MVD Depth (Feet) : 99999
Spud Date : 12-01-1985 P/A Date :
Casing/Linear Record:

S Size (inches)	Grade Weight (lb/ft)	Depth(ft) Top-Liner	Depth(ft) Bot-Liner	Hole Size (inches)	Cement (Sacks)	TOC (feet)	Code
9.625	32.0	1.0	705.0	12.250	390		C
7.000	20.0	705.0	2547.0	8.750	450		C

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

API Well No : 30 59 20281 Eff Date : 03-19-1994 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 231
GL Elevation: 4550

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: J	23	18N	35E	FTG 1650 F S	FTG 1650 F E	A

Lot Identifier:
Dedicated Acre: 640.00
Lease Type : P
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 13:15:45
OGOMES -EME1

OGRID Idn : 778 API Well No: 30 59 20359 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 232 A

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: D	23	18N	35E			FTG 204 F N	FTG 1195 F W
OCD U/L	: D		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4577

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
.OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 13:15:37
OGOMES -EME1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20359 Well No : 232A
Surface Locn - UL : D Sec : 23 Twp : 18N Range : 35E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
.OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 13:15:51
OGOMES -EME1

API Well No : 30 59 20359 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 232A
GL Elevation: 4577

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: D	23	18N	35E	FTG 204 F N	FTG 1195 F W	P

Lot Identifier:
Dedicated Acre: 640.00
Lease Type : P
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



Amoco Exploration and Production
U.S.A. Operations Group

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

(d)

P. M. Jarrell
Resource Manager, Bravo Dome

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

File: PMJ - 4269 - 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 2135 Well No. 202M)
Union County, New Mexico

30-059-20362

Dear Mr. Johnson:

Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 2135 Well No. 202M to be drilled at a location 1173 feet from the south line and 176 feet from the west line of Section 20, Township 21N, Range 35E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

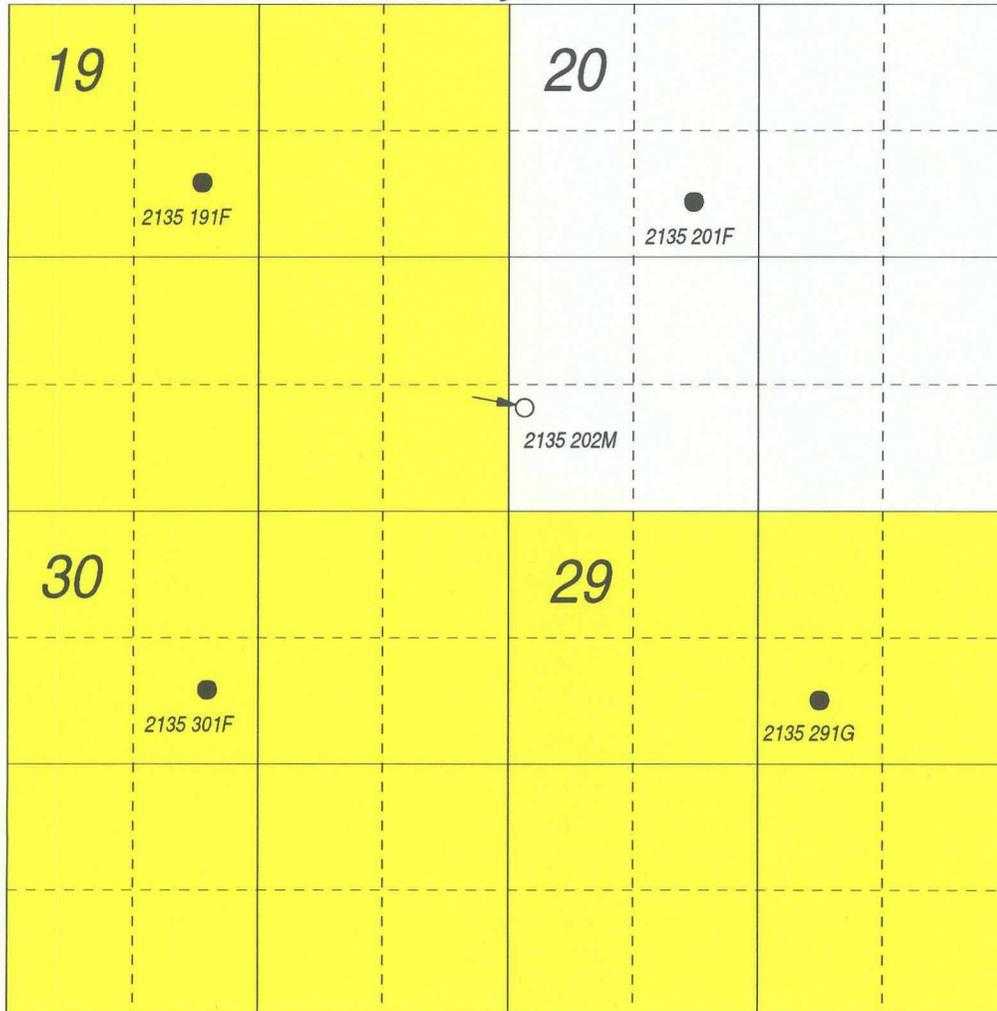
Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

Your attention to this request is appreciated.

Very truly yours,


Enclosure

Bravo Dome Well No. 2135 202M
1173' FSL x 176' FWL
Section 20, Township 21N, Range 35E
Union County, New Mexico



Amoco Operated
(One well on each Section)

Exhibit A

Sec : 20 Twp : 21N Rng : 35E Section Type : NORMAL

D 40.00 Fee owned U	C 40.00 Fee owned U	B 40.00 Fee owned U	A 40.00 Fee owned U
E 40.00 Fee owned U	F 40.00 Fee owned U A	G 40.00 Fee owned U	H 40.00 Fee owned U

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

Sec : 20 Twp : 21N Rng : 35E Section Type : NORMAL

L 40.00 Fee owned U	K 40.00 Fee owned U	J 40.00 Fee owned U	I 40.00 Fee owned U
M 40.00 Fee owned U A	N 40.00 Fee owned U	O 40.00 Fee owned U	P 40.00 Fee owned U

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

CMD :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 08:58:50
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20320 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-06-1995
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 201

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: F	20	21N	35E			FTG 1985 F N	FTG 1942 F W
OCD U/L	: F		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4693

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2290 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD : :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 08:58:40
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20320 Well No : 201
Surface Locn - UL : F Sec : 20 Twp : 21N Range : 35E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

API Well No : 30 59 20320 Eff Date : 08-28-1995 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 201
GL Elevation: 4693

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: F	20	21N	35E	FTG 1985 F N	FTG 1942 F W	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 .: .
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 13:23:16
OGOMES -EMEI

OGRID Idn : 778 API Well No: 30 59 20362 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 202

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: M	20	21N	35E			FTG 1173 F S	FTG 176 F W
OCD U/L	: M		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4709

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 13:23:07
OGOMES -EME1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20362 Well No : 202
Surface Locn - UL : M Sec : 20 Twp : 21N Range : 35E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 13:23:22
OGOMES -EME1

API Well No : 30 59 20362 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 202
GL Elevation: 4709

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	M	20	21N	35E	FTG 1173 F S	FTG 176 F W	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



Amoco Exploration and Production
U.S.A. Operations Group

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

P. M. Jarrell
Resource Manager, Bravo Dome

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

(e)

File: PMJ - 4266 - 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 2234 Well No. 342P
Union County, New Mexico

30-059-20365

Dear Mr. Johnson:

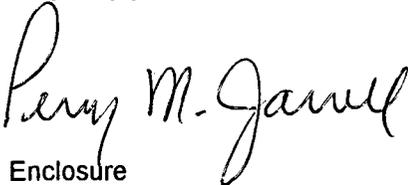
Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 2234 Well No. 342P to be drilled at a location 500 feet from the south line and 200 feet from the east line of Section 34, Township 22N, Range 34E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

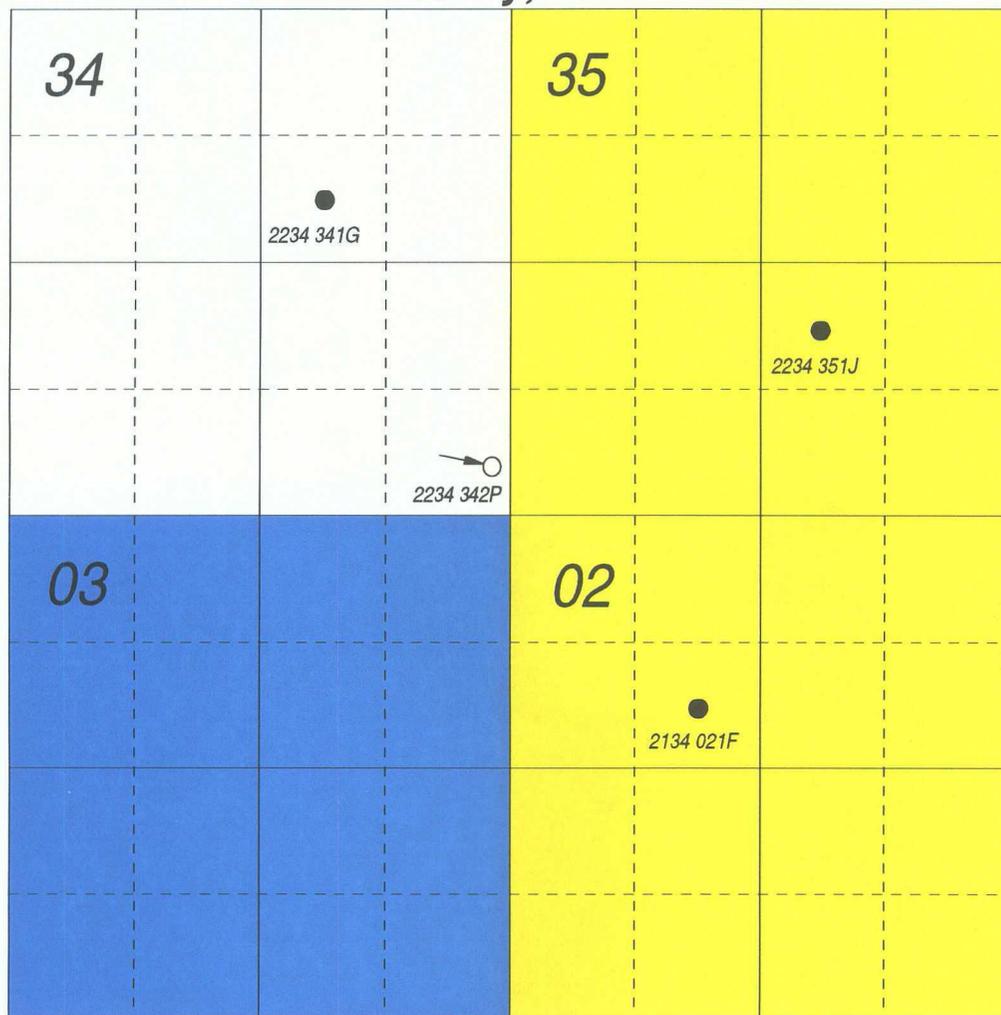
Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

Your attention to this request is appreciated.

Very truly yours,


Enclosure

Bravo Dome Well No. 2234 342P
500' FSL x 200' FEL
Section 34, Township 22N, Range 34E
Union County, New Mexico




Amoco Lease
(No well on lease)


Amoco Operated
(One well on each Section)

Exhibit A

Sec : 34 Twp : 22N Rng : 34E Section Type : NORMAL

D 40.00 CS LG2909 2 07/85 AMERADA HESS CORP U	C 40.00 Fee owned U	B 40.00 CS LG2909 2 07/85 AMERADA HESS CORP U	A 40.00 CS LG2909 2 07/85 AMERADA HESS CORP U
E 40.00 CS LG2909 2 07/85 AMERADA HESS CORP U	F 40.00 Fee owned U	G 40.00 CS LG2909 2 07/85 AMERADA HESS CORP U <i>(A)</i>	H 40.00 CS LG2909 2 07/85 AMERADA HESS CORP U

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

Sec : 34 Twp : 22N Rng : 34E Section Type : NORMAL

L	K	J	I
40.00	40.00	40.00	40.00
CS			CS
LG2909 2 07/85			LG2909 2 07/85
AMERADA HESS CORP	Fee owned	Fee owned	AMERADA HESS CORP
U	U	U	U
M	N	O	P
40.00	40.00	40.00	40.00
CS	CS	CS	CS
LG2909 2 07/85	LG2909 2 07/85	LG2909 2 07/85	LG2909 2 07/85
AMERADA HESS CORP	AMERADA HESS CORP	AMERADA HESS CORP	AMERADA HESS CORP
U	U	U	U

A

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

CMD :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:14:21
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20341 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-16-1995
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 341

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: G	34	22N	34E			FTG 2120 F N	FTG 2206 F E
OCD U/L	: G		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): S Ground Level Elevation : 4833

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2370 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:14:15
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20341 Well No : 341
Surface Locn - UL : G Sec : 34 Twp : 22N Range : 34E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:14:27
OGOMES -EMG1

API Well No : 30 59 20341 Eff Date : 09-14-1995 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 341
GL Elevation: 4833

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: G	34	22N	34E	FTG 2120 F N	FTG 2206 F E	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : S

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:14:51
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20365 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 342

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn : P	34	22N	34E				FTG 500 F S	FTG 200 F E
OCD U/L : P		API	County	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4749

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:14:45
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20365 Well No : 342
Surface Locn - UL : P Sec : 34 Twp : 22N Range : 34E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
 (inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:14:57
OGOMES -EMG1

API Well No : 30 59 20365 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 342
GL Elevation: 4749

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	34	22N	34E	FTG 500 F S	FTG 200 F E	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



**Amoco Exploration and Production
U.S.A. Operations Group**

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

P. M. Jarrell
Resource Manager, Bravo Dome

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

(f)

File: PMJ - 4267- 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 2134 Well No. 133M
Union County, New Mexico

Dear Mr. Johnson:

Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 2134 Well No.133M to be drilled at a location 1158 feet from the south line and 515 feet from the west line of Section 13, Township 21N, Range 34E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

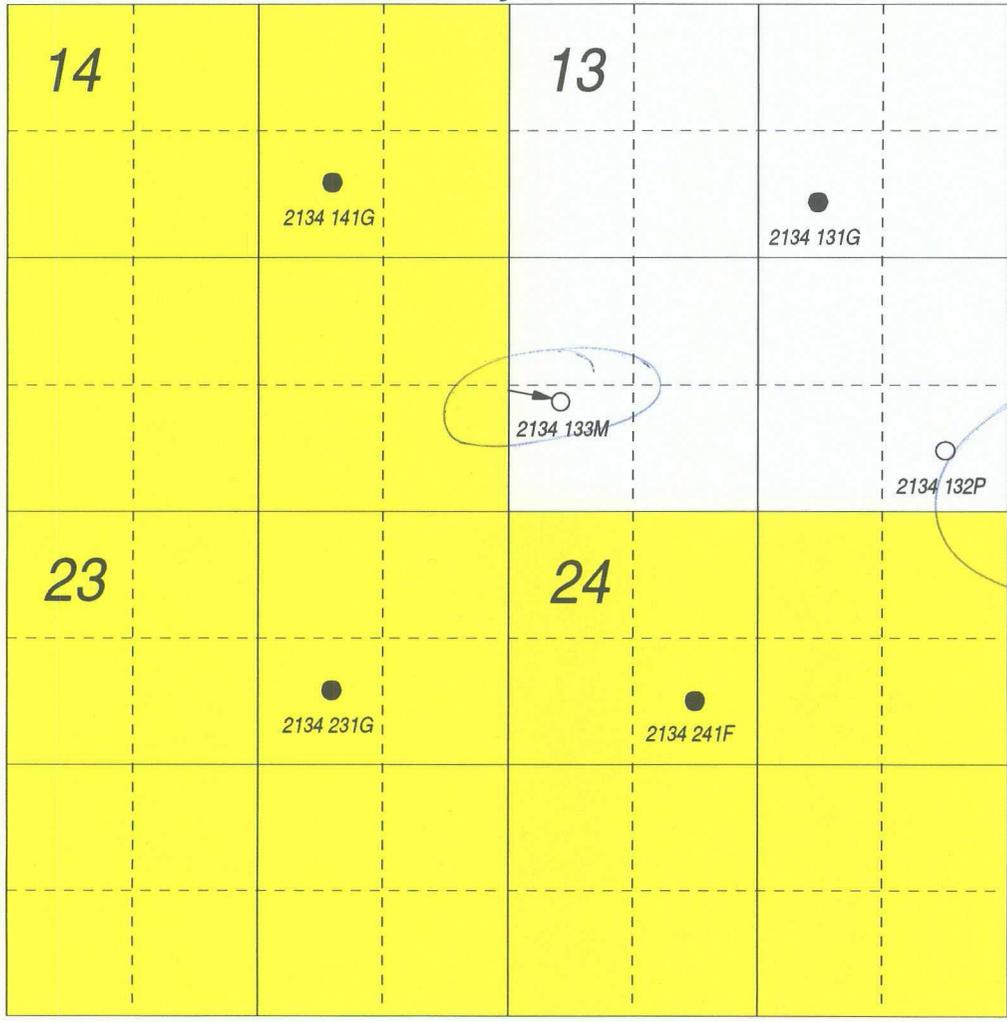
Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

Your attention to this request is appreciated.

Very truly yours,

Enclosure

Bravo Dome Well No. 2134 133M
1158' FSL x 515' FWL
Section 13, Township 21N, Range 34E
Union County, New Mexico



Amoco Operated
(One well on each Section)

Exhibit A

Sec : 13 Twp : 21N Rng : 34E Section Type : NORMAL

D 40.00 Fee owned U	C 40.00 Fee owned U	B 40.00 NMT L06256 05/81 AMOCO PRODUCTION U	A 40.00 NMT L06256 05/81 AMOCO PRODUCTION U
E 40.00 Fee owned U	F 40.00 Fee owned U	G 40.00 NMT L06256 05/81 AMOCO PRODUCTION U A	H 40.00 NMT L06256 05/81 AMOCO PRODUCTION U

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

Sec : 13 Twp : 21N Rng : 34E Section Type : NORMAL

L 40.00 Fee owned U	K 40.00 Fee owned U	J 40.00 NMT L06256 05/81 AMOCO PRODUCTION U	I 40.00 NMT L06256 05/81 AMOCO PRODUCTION U
M 40.00 Fee owned U A	N 40.00 Fee owned U	O 40.00 NMT L06256 05/81 AMOCO PRODUCTION U	P 40.00 NMT L06256 05/81 AMOCO PRODUCTION U A

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

CMD :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:11:20
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20313 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-06-1995
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 131

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: G	13	21N	34E			FTG 1981 F N	FTG 2015 F E
OCD U/L	: G		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): S Ground Level Elevation : 4748

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2280 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:11:13
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20313 Well No : 131
Surface Locn - UL : G Sec : 13 Twp : 21N Range : 34E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:11:26
OGOMES -EMG1

API Well No : 30 59 20313 Eff Date : 09-15-1995 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 131
GL Elevation: 4748

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: G	13	21N	34E	FTG 1981 F N	FTG 2015 F E	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : S

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:11:50
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20360 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 133

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: M	13	21N	34E			FTG 1158 F S	FTG 515 F W
OCD U/L	: M		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4714

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:11:44
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20360 Well No : 133
Surface Locn - UL : M Sec : 13 Twp : 21N Range : 34E Lot Idn :
Multiple comp (S/M/C): N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:11:57
OGOMES -EMG1

API Well No : 30 59 20360 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 133
GL Elevation: 4714

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: M	13	21N	34E	FTG 1158 F S FTG	515 F W	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

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 :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:12:16
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20349 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 04-16-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 132

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: P	13	21N	34E			FTG 660 F S	FTG 660 F E
OCD U/L	: P		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): S Ground Level Elevation : 4823

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:12:10
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20349 Well No : 132
Surface Locn - UL : P Sec : 13 Twp : 21N Range : 34E Lot Idn :
Multiple comp (S/M/C): N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:12:22
OGOMES -EMG1

API Well No : 30 59 20349 Eff Date : 04-16-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 132
GL Elevation: 4823

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	13	21N	34E	FTG 660 F S	FTG 660 F E	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : S

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



**Amoco Exploration and Production
U.S.A. Operations Group**

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

**P. M. Jarrell
Resource Manager, Bravo Dome**

May 17, 1996

Roy Johnson, District Supervisor
Oil Conservation Division
New Mexico Department of Energy
Minerals and Natural Resources
2040 South Pacheco Street
Sante Fe, New Mexico 87505

(9)

File: PMJ - 4268 - 400

Re: Application for Administrative Approval of Unorthodox Well Location,
BDCDGU 2134 Well No. 243M
Union County, New Mexico

Dear Mr. Johnson:

Amoco hereby seeks administrative approval pursuant to the provisions of amended Division Rule 104 F(2), effective January 18, 1996, of an unorthodox well location for its BDCDGU 2134 Well No. 243M to be drilled at a location 600 feet from the south line and 250 feet from the west line of Section 24, Township 21N, Range 34E, NMPM., Union County, New Mexico.

The unorthodox location is necessary for engineering reasons (i.e., reservoir pressure, drainage, ultimate gas recovery, etc.). Infill wells at orthodox locations will not recover enough incremental reserves to justify drilling them under the current economic climate. The only viable way to increase ultimate recovery is to drill at an unorthodox location as proposed in this application.

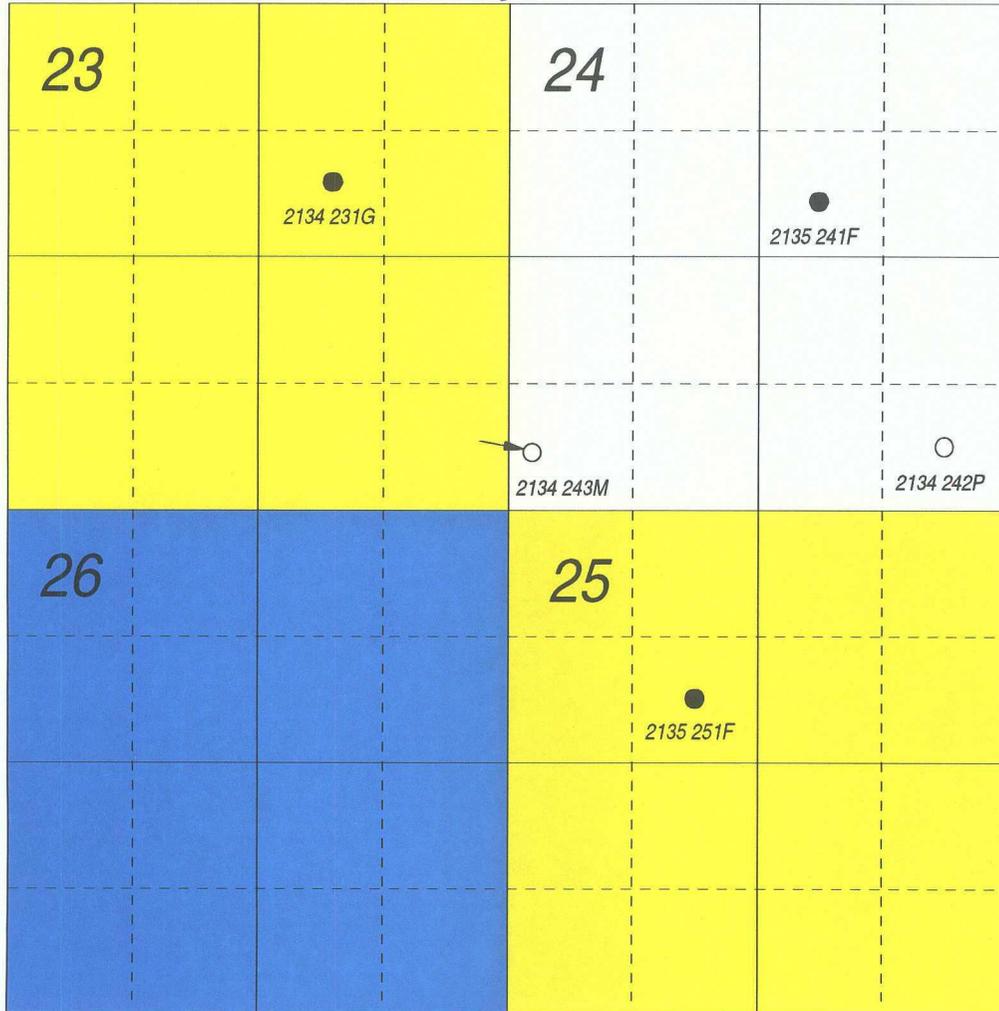
Diagonal and adjoining sections to the unorthodox well location are operated by Amoco, are leased by Amoco, or are subject to a lease owned by another working interest owner in the Bravo Dome Carbon Dioxide Gas Unit and committed to the Unit. No notification to "affected parties" under amended Division Rule 104.F(4), effective January 18, 1996 is required. Exhibit A shows the subject spacing unit, proposed unorthodox location, and the diagonal/adjoining spacing units.

Your attention to this request is appreciated.

Very truly yours,

Enclosure

**Bravo Dome Well No. 2134 243M
 600' FSL x 250' FWL
 Section 24, Township 21N, Range 34E
 Union County, New Mexico**



*Amoco Lease
 Committed to Bravo Dome Unit
 (No well on lease)*



*Amoco Operated
 (One well on each Section)*

Exhibit A

Sec : 24 Twp : 21N Rng : 34E Section Type : NORMAL

D	C	B	A
40.00	40.00	40.00	40.00
CS		NMT	NMT
L06259 05/81		OPEN 04/95	OPEN 04/95
AMOCO PRODUCTION	Fee owned		
U	U	U	U
E	F	G	H
40.00	40.00	40.00	40.00
CS		NMT	NMT
L06259 05/81		OPEN 04/95	OPEN 04/95
AMOCO PRODUCTION	Fee owned		
U	U	U	U
	A		

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

Sec : 24 Twp : 21N Rng : 34E Section Type : NORMAL

L 40.00 Fee owned U	K 40.00 Fee owned U	J 40.00 Fee owned U	I 40.00 Fee owned U
M 40.00 Fee owned U A	N 40.00 Fee owned U	O 40.00 Fee owned U	P 40.00 Fee owned U A

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

CMD :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:07:56
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20314 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-06-1995
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 241

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn : F	24	21N	34E				FTG 2018 F N	FTG 1962 F W
OCD U/L : F		API	County	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4834

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2390 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:07:48
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20314 Well No : 241
Surface Locn - UL : F Sec : 24 Twp : 21N Range : 34E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:08:07
OGOMES -EMG1

API Well No : 30 59 20314 Eff Date : 08-28-1995 WC Status : A
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 241
GL Elevation: 4834

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: F	24	21N	34E	FTG 2018 F N	FTG 1962 F W	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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 : ONGARD 07/02/96 09:08:35
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20361 APD Status(A/C/P) : A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 06-28-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 243

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: M	24	21N	34E			FTG 600 F S	FTG 250 F W
OCD U/L	: M		API County	: 59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C) : C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I) : P Ground Level Elevation : 4827

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

OGRID Identifier : 778 AMOCO PRODUCTION CO
 Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
 API Well Identifier : 30 59 20361 Well No : 243
 Surface Locn - UL : M Sec : 24 Twp : 21N Range : 34E Lot Idn :
 Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
 Spud Date : P/A Date :
 Casing/Linear Record:

 S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
 (inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
 PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:08:45
OGOMES -EMG1

API Well No : 30 59 20361 Eff Date : 06-28-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 243
GL Elevation: 4827

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: M	24	21N	34E	FTG 600 F S	FTG 250 F W	P

Lot Identifier:

Dedicated Acre: 640.00

Lease Type : P

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 :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

07/02/96 09:09:09
OGOMES -EMG1

OGRID Idn : 778 API Well No: 30 59 20350 APD Status(A/C/P): A
Opr Name, Addr: AMOCO PRODUCTION CO Aprvl/Cncl Date : 04-16-1996
PO BOX 21178
TULSA,OK 74121

Prop Idn: 335 BRAVO DOME CARBON DIOXIDE GAS UNIT Well No: 242

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn : P	24	21N	34E				FTG 660 F S	FTG 660 F E
OCD U/L : P		API	County	59				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): C Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 4822

State Lease No: Multiple Comp (Y/N) : N
Prpsd Depth : 2450 Prpsd Frmtn : TUBB

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :
OG6CLOG

ONGARD
C105-WELL COMPLETION OR RECOMP CASING LOG

07/02/96 09:09:01
OGOMES -EMG1

OGRID Identifier : 778 AMOCO PRODUCTION CO
Prop Identifier : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT
API Well Identifier : 30 59 20350 Well No : 242
Surface Locn - UL : P Sec : 24 Twp : 21N Range : 34E Lot Idn :
Multiple comp (S/M/C) : N TVD Depth (Feet) : MVD Depth (Feet):
Spud Date : P/A Date :
Casing/Linear Record:

S Size Grade Weight Depth(ft) Depth(ft) Hole Size Cement ---- TOC ----
(inches) (lb/ft) Top-Liner Bot-Liner (inches) (Sacks) (feet) Code

E0004: No matching record found. Enter data to create.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 COMMENT PF10 TLOG PF11 PF12

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/02/96 09:09:18
OGOMES -EMG1

API Well No : 30 59 20350 Eff Date : 04-16-1996 WC Status :
Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS 640
OGRID Idn : 778 AMOCO PRODUCTION CO
Prop Idn : 335 BRAVO DOME CARBON DIOXIDE GAS UNIT

Well No : 242
GL Elevation: 4822

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	24	21N	34E	FTG 660 F S	FTG 660 F E	P

Lot Identifier:
Dedicated Acre: 640.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

May 28, 1996

Mike - FYI - I'll do
these when the appropriate
info comes in.

Amoco Production Co.
501 Westlake Park Blvd.
PO Box 4891
Houston, Tx. 77210

Attention: Mr. Jarrell

Re: Application for Administrative Approval of
Unorthodox Well Locations, BDCDG Unit Wells
Nos. 1835-232D, 2135-302M, 2135-202M, 2134-
243M, 2134-133M, 2234-342P and 2234-282P,
Union County, New Mexico

Dear Mr. Jarrell:

This office is in receipt of the above-referenced applications and has found them incomplete as per OCD Order No. R-10576. In order for these applications to be processed, Amoco will be required to identify all offsetting royalty interest owners and provide this office a certified statement stating whether or not these interest owners are committed to the Bravo Dome Carbon Dioxide Gas Unit. In the event that the offset royalty interest owners are not committed to this unit, additional notice to these interest owners will be required.

Should you have questions pertaining to this matter, please contact me at this office.

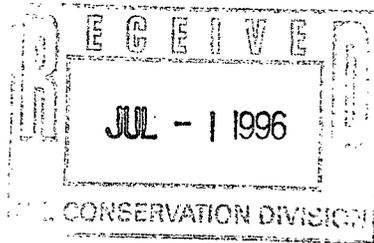
Sincerely,

ROY E. JOHNSON,
Sr. Petroleum Geologist

REJ/dr



Sam Culpepper
Senior Business Analyst
(713) 366-2361
(713) 366-7590 (FAX)



Amoco Exploration and Production
U.S.A. Operations Group

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

June 26, 1996

New Mexico Energy, Minerals &
Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Attention: Roy E. Johnson

Re: Application for Administrative Approval of
Unorthodox Well Locations, BDCDG Unit Wells
Nos. 1835-232D, 2135-302M, 2135-202M, 2134-
243M, 2134-133M, 2234-342P and 2234-282P,
Union County, New Mexico

Dear Mr. Johnson:

In response to your letter of May 28, 1996, in regard to the above-referenced applications of which receipt was acknowledged, I have researched Amoco records involving the sections adjoining and diagonal to the unorthodox well locations detailed in the plats attached to the applications originally submitted to your office. Without reservation, I can state from my research that in every said section, there are no unleased mineral interests and all Amoco royalty interest owners are committed to the Bravo Dome Carbon Dioxide Gas Unit.

Since each working interest owner within the BDCDGU makes royalty settlement with its own royalty interest owners, Amoco has no records of royalty interest ownership for BDCDGU partners, however Amoco has sent copies of the above-referenced applications to each lessee of record (working interest owner) in the sections adjoining and diagonal to the unorthodox well locations, deemed "affected parties" under Amended Division Rule No. 104.F (Shell and Amerada Hess). In addition, Amoco has inquired of said BDCDGU working interest owners in sections adjoining and diagonal to the unorthodox well locations as to any uncommitted royalty interests and has received assurances that all of their royalty interest owners in those sections are committed to the unit.

Please, accept this statement as an addendum to the above-referenced applications, and based on the information contained herein, approve said Applications for Administrative Approval of Unorthodox Well Locations.

I appreciate your cooperation in this matter. If you have any questions or problems, please give me a call at 713-366-2361.

Sincerely,

A handwritten signature in black ink, appearing to read "Sam Culpepper". The signature is fluid and cursive, with a long horizontal stroke at the end.

Sam Culpepper

cc: Perry Jarrell
Shell Western E&P Inc.
Amerada Hess Corp.

FAX TRANSMISSION

DATE: June 27, 1996

TO: Roy Johnson (NMOCD District Supervisor)
FAX ~~505-827-8177~~ 438-3855

FROM: Sam Culpepper (Amoco)
713-366-2361

RE: Applications for Administrative Approval of Unorthodox Well
Locations

PAGES: 3, including cover

Attached is a statement from me regarding royalty interests in the adjoining and diagonal sections to the unorthodox well locations for the above-referenced applications. The original will follow through U.S. mail.

I hope this will meet your requirements for approval.

I will be on vacation next week, but I will be back in the office on Monday, July 8.

Thanks for your help in this matter.

Sam



Sam Culppeper
Senior Business Analyst
(713) 366-2361
(713) 366-7590 (FAX)

Amoco Exploration and Production
U.S.A. Operations Group

Permian Basin Business Unit

501 WestLake Park Boulevard
Post Office Box 4891
Houston, Texas 77210

June 26, 1996

New Mexico Energy, Minerals &
Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Attention: Roy E. Johnson

Re: Application for Administrative Approval of
Unorthodox Well Locations, BDCDG Unit Wells
Nos. 1835-232D, 2135-302M, 2135-202M, 2134-
243M, 2134-133M, 2234-342P and 2234-282P,
Union County, New Mexico

Dear Mr. Johnson:

In response to your letter of May 28, 1996, in regard to the above-referenced applications of which receipt was acknowledged, I have researched Amoco records involving the sections adjoining and diagonal to the unorthodox well locations detailed in the plats attached to the applications originally submitted to your office. Without reservation, I can state from my research that in every said section, there are no unleased mineral interests and all Amoco royalty interest owners are committed to the Bravo Dome Carbon Dioxide Gas Unit.

Since each working interest owner within the BDCDGU makes royalty settlement with its own royalty interest owners, Amoco has no records of royalty interest ownership for BDCDGU partners, however Amoco has sent copies of the above-referenced applications to each lessee of record (working interest owner) in the sections adjoining and diagonal to the unorthodox well locations, deemed "affected parties" under Amended Division Rule No. 104.F (Shell and Amerada Hess). In addition, Amoco has inquired of said BDCDGU working interest owners in sections adjoining and diagonal to the unorthodox well locations as to any uncommitted royalty interests and has received assurances that all of their royalty interest owners in those sections are committed to the unit.

Please, accept this statement as an addendum to the above-referenced applications, and based on the information contained herein, approve said Applications for Administrative Approval of Unorthodox Well Locations.

I appreciate your cooperation in this matter. If you have any questions or problems, please give me a call at 713-366-2361.

Sincerely,

A handwritten signature in black ink, appearing to read "Sam Culpepper". The signature is fluid and cursive, with a long horizontal stroke at the end.

Sam Culpepper

cc: Perry Jarrell
Shell Western E&P Inc.
Amerada Hess Corp.

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

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 11497
Order No. R-10576

APPLICATION OF AMOCO PRODUCTION
COMPANY FOR FOURTEEN UNORTHODOX
INFILL CARBON DIOXIDE GAS WELL
LOCATIONS, UNION COUNTY, NEW
MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on March 21, 1996, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 1st day of April, 1996, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Amoco Production Company, seeks an exception to Rule No. (4) of the Special Rules and Regulations for the Bravo Dome 640-Acre Area as promulgated by Division Order No. R-7556, to allow the drilling of the following described fourteen carbon dioxide infill gas wells at unorthodox gas well locations, all located in Union County, New Mexico:

WELL NAME & NUMBER

WELL LOCATION

BDCDGU 2135 Well No. 182	660' FNL & 660'FWL (D)-18-21N-35E
BDCDGU 2234 Well No. 232	660' FSL & 660'FWL (M)-23-22N-34E
BDCDGU 1835 Well No. 082	660' FSL & 1980'FWL (N)- 8-18N-35E
BDCDGU 2234 Well No. 262	660' FSL & 560'FWL (M)-26-22N-34E
BDCDGU 2134 Well No. 243	660' FSL & 660'FEL (P)-24-21N-34E
BDCDGU 2234 Well No. 223	660' FNL & 385'FWL (D)-22-22N-34E

BDCDGU 2234 Well No. 212	660' FSL & 660'FWL (M)-21-22N-34E
BDCDGU 2134 Well No. 132	450' FSL & 450'FEL (P)-13-21N-34E
BDCDGU 1835 Well No. 072	1980' FSL & 1980'FWL (K)- 7-18N-35E
BDCDGU 2135 Well No. 183	660' FSL & 660'FEL (P)-18-21N-35E
BDCDGU 1835 Well No. 162	660' FSL & 660'FEL (P)-16-18N-35E
BDCDGU 1835 Well No. 163	660' FNL & 1980'FWL (C)-16-18N-35E
BDCDGU 2234 Well No. 213	560' FNL & 660'FWL (D)-21-22N-34E
BDCDGU 2234 Well No. 172	660' FNL & 660'FEL (A)-17-22N-34E

(3) The applicant further requests the establishment of an administrative procedure whereby additional infill wells proposed to be drilled at unorthodox locations based upon geologic and engineering considerations may be approved administratively by the Division.

(4) At the time of the hearing, it was determined that the BDCDGU 1835 Well No. 072 is located at a standard gas well location, and therefore, the unorthodox location request for this well should be dismissed.

(5) The subject wells are all located within the Amoco Production Company Bravo Dome Carbon Dioxide Gas Unit. In addition, the wells are located within the Bravo Dome 640-Acre Area as defined within Division Order No. R-7556, entered in Case No. 8190 on June 19, 1984.

(6) The Bravo Dome 640-Acre Area is currently governed by Special Rules and Regulations as contained within said Order No. R-7556 which require, in part, 640-acre standard gas spacing and proration units with wells to be located no closer than 1,650 feet from the outer boundary of the section nor closer than 330 feet from any quarter-quarter section line or subdivision inner boundary. The rules further allow the drilling of infill gas wells within a standard spacing unit (Rule No. (2)) provided that such wells are located no closer than 1,320 feet from any other well drilling to or capable of producing from the Bravo Dome 640-Acre Area.

(7) According to applicant's evidence and testimony, it has recently undertaken a study to determine the feasibility of infill drilling within the Bravo Dome 640-Acre Area. Initially, the applicant identified approximately 450 well locations which may be candidates for infill drilling. Utilizing the following described criteria, the applicant has identified the fourteen wells described in Finding No. (2) above as being the top candidates for infill drilling at this time:

- a) areas where infill drilling can maximize ultimate recovery;
- b) areas where infill drilling will result in wells with relatively high deliverabilities (2.5 + MMCFGD); and,
- c) minimize costs by locating wells near existing surface facilities.

(8) According to applicant's testimony, the proposed unorthodox locations for those wells located on its Leg 9 Gathering System, being the BDCDGU Well Nos. 2135-182, 2234-232, 2234-262, 2134-243, 2234-223, 2234-212, 2134-132, 2135-183, 2234-213, and 2234-172, are necessary due to engineering considerations (i.e. reservoir pressure, drainage, ultimate gas recovery, etc.).

(9) Applicant's evidence further indicates that the proposed unorthodox locations for those wells located on its Leg 6 and 7 Gathering System, being the BDCDGU Well Nos. 1835-082, 1835-072, 1835-162, and 1835-163, are based upon geologic as well as engineering considerations, namely the presence of a northwest to southeast trending fault which traverses each of the well's proration units.

(10) To aid in its determination of those areas within the Bravo Dome 640-Acre Area where infill drilling can maximize recovery, the applicant has built a field-wide computer simulation model which is composed of a reservoir model component and a surface facility model component.

(11) The evidence presented indicates that the applicant has obtained a good history match between the computer simulation and past production within the model area. This indicates that applicant's computer simulation should be capable of accurately predicting future field performance.

(12) The computer simulation was utilized by the applicant to select those infill well locations where incremental gas recovery would be maximized.

(13) The results of the reservoir simulation indicate that drilling the infill wells at the proposed unorthodox locations instead of standard well locations within the subject proration units should result in the recovery of an additional 13 BCF of carbon dioxide gas which would otherwise not be recovered, thereby preventing waste.

(14) All of the affected offset acreage is located within the Amoco Production Company Bravo Dome Carbon Dioxide Gas Unit.

(15) The applicant testified that it has examined the affected offset acreage to determine whether or not there are royalty interest owners who have not ratified the Unit Agreement, and therefore may be affected by the proposed unorthodox locations. Applicant determined that there are such interest owners, however, applicant testified that it has historically been unsuccessful in locating these interest owners.

(16) No other offset operator and/or interest owner appeared at the hearing in opposition to the application.

(17) Approval of the subject application will afford the applicant the opportunity to recover additional gas reserves from each of the subject proration units which may otherwise not be recovered, thereby preventing waste, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and will not violate correlative rights.

(18) Pursuant to Division Rule No. 104.F., which was recently amended by Division Order No. R-10533, future unorthodox gas well locations within the Bravo Dome 640-Acre Area based upon geologic or engineering considerations should qualify for administrative approval, provided however, that the supervisor of the Division's Santa Fe District Office should have the authority to require additional notice by the applicant to those offset interest owners deemed to be affected by any proposed unorthodox location.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Amoco Production Company, is hereby authorized to drill the following described thirteen infill carbon dioxide gas wells within the Bravo Dome 640-Acre Area at unorthodox gas well locations, all located in Union County, New Mexico:

WELL NAME & NUMBER

WELL LOCATION

BDCDGU 2135 Well No. 182
BDCDGU 2234 Well No. 232
BDCDGU 1835 Well No. 082
BDCDGU 2234 Well No. 262
BDCDGU 2134 Well No. 243
BDCDGU 2234 Well No. 223
BDCDGU 2234 Well No. 212
BDCDGU 2134 Well No. 132
BDCDGU 2135 Well No. 183
BDCDGU 1835 Well No. 162
BDCDGU 1835 Well No. 163

660' FNL & 660'FWL (D)-18-21N-35E
660' FSL & 660'FWL (M)-23-22N-34E
660' FSL & 1980'FWL (N)- 8-18N-35E
660' FSL & 560'FWL (M)-26-22N-34E
660' FSL & 660'FEL (P)-24-21N-34E
660' FNL & 385'FWL (D)-22-22N-34E
660' FSL & 660'FWL (M)-21-22N-34E
450' FSL & 450'FEL (P)-13-21N-34E
660' FSL & 660'FEL (P)-18-21N-35E
660' FSL & 660'FEL (P)-16-18N-35E
660' FNL & 1980'FWL (C)-16-18N-35E

BDCDGU 2234 Well No. 213
BDCDGU 2234 Well No. 172

560' FNL & 660' FWL (D)-21-22N-34E
660' FNL & 660' FEL (A)-17-22N-34E

(2) Each of the subject wells shall be dedicated to the existing 640-acre standard gas spacing and proration unit on which it is located.

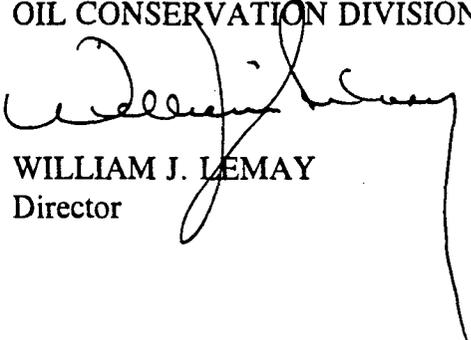
(3) Applicant's request for an unorthodox location approval for its BDCDGU 1835 Well No. 072 is hereby dismissed.

(4) Pursuant to Division Rule No. 104.F., future unorthodox gas well locations within the Bravo Dome 640-Acre Area based upon geologic or engineering considerations shall qualify for administrative approval, provided however, that the supervisor of the Division's Santa Fe District Office shall have the authority to require additional notice by the applicant to those offset interest owners deemed to be affected by any proposed unorthodox location.

(5) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY
Director

S E A L

NEW MEXICO OIL CONSERVATION COMMISSION

Form ID1

DISTRICT III

NOTICE OF INTENTION TO DRILL - WEEKLY ACTIVITY REPORT

DATE 7-1-96

PAGE 1 OF CE

OPERATOR	WELL DESCRIPTION			STATUS	OGIS	S / MC	POOL-FORMATION-DEPTH List Each Pool If Multiple	COUNTRY	DATE APPROVED MO-DAY
	WELL NO.	FOOTAGE	LOCATION						
			UL S T R						
Labrador Oil Co.	1	2140 FN, 525 FW	E-1-6N-22E	P	N O	S	Wildcat - Granite - 19,000'	Gu	6-12
Amoco Production Co. (c)	342	500 FS, 200 FE	P-34-22N-34E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28
Amoco Production Co. (b)	282	862 FS, 372 FE	P-28-22N-34E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28
Amoco Production Co. (a)	302	482 FS, 255 FW	M-30-21N-35E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28
Amoco Production Co. (d)	202	1173 FS, 176 FW	M-20-21N-35E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28
Amoco Production Co.	243	600 FS, 250 FW	M-24-21N-34E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28
Amoco Production Co.	133	1158 FS, 575 FW	M-13-21N-34E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28
Amoco Production Co. (c)	232	204 FN, 1195 FW	D-23-18N-35E	P	N C	S	BRAVO DOME CO ₂ - 2450'	Un	6-28

LAND
F = FEDERAL
S = STATE
P = PRIVATE, FEE
N-J-U = INDIAN

STATUS
N = NEW LOCATION
D = DEEPEN
E = RE-ENTRY OF P&A

OGIS
O = OIL WELL
G = GAS WELL
I = INJECTION
S = SWD

W = WATER SUPPLY
L = LPG STORAGE
C = CARBON DIOXIDE

S/MC
M = MULTIPLE COMPLETION
S = SINGLE COMPLETION