

State of New Mexico

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

2040 Pecheco St.

Santa Fe, NM 87505-5472

1220 S. St. Francis Dr.

TF-03-010

FOR DIVISION USE ONLY:		APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION		5A. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
APPROPRIATE FILING FEE(S) ENCLOSED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		- 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)		5. State Oil & Gas Lease No.	
DATE COMPLETE APPLICATION FILED <u>March 10, 2003</u>					
DATE DETERMINATION MADE <u>April 28, 2003</u>				7. Unit Agreement Name	
WAS APPLICATION CONTESTED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				8. Farm or Lease Name Sullivan Gas Com	
NAME(S) OF INTERVENORS(S), IF ANY: <u>na</u>				9. Well No. 1A	
2. Name of Operator BP America Production Company				10. Field and Pool, or Wildcat Blanco Mesaverde	
3. Address of Operator P.O. Box 3092 Houston, TX 77253				12. County San Juan	
4. Location of Well UNIT LETTER <u>D</u> LOCATED <u>1130</u> FEET FROM THE <u>North</u> LINE AND <u>920</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>22</u> TWS. <u>32N</u> RGE. <u>10W</u> 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

API No. 30-045-24739

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

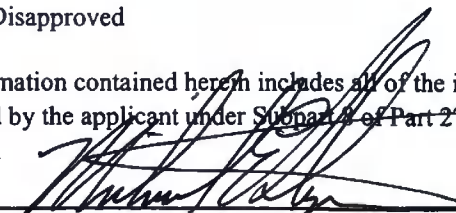
I, HEREBY CERTIFY THAT THE INFORMATION CONTAINED
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

Mary Corley

NAME OF APPLICANT (TYPE OR PRINT)

SIGNATURE OF APPLICANT

Title Senior Regulatory AnalystDate February 13, 2003

FOR DIVISION USE ONLY	
<input checked="" type="checkbox"/> Approved	The information contained herein includes all of the information required to be filed by the applicant under Subpart 4 of Part 274 of the FERC regulation
<input type="checkbox"/> Disapproved	
 EXAMINER	

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.* **Sullivan Gas Com # 1A**
2. Completed in (Name of Reservoir) * **Mesaverde**
3. Field * **Blanco Mesaverde**
4. County * **San Juan**
5. State * **New Mexico**
6. API Well No. (14 digits maximum. If not assigned, leave blank.) **30-045-24739** ✓
9. Measured Depth of the Completed Interval (in feet)
TOP **4304'** BASE **5165'**

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

1. Applicant's Name * **BP America Production Company**
2. Street * **501 Westlake Park BLVD**
3. City * **Houston**
4. State* **Texas** 5. Zip Code **77079**
6. Name of Person Responsible * **Mary Corley**
7. Title of Such Person * **Senior Regulatory Analyst**
8. Signature *Mary Corley* and Phone No. (281) 366 - 4491

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

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 BP America 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 tight 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 Sullivan Gas Com well # 1A, API No. 30-045-24739 is natural gas produced from a FERC designated tight formation, assigned State No. NM - 48 through:

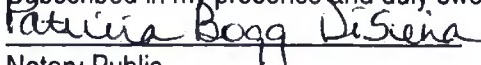
- X a well the surface drilling of which began after December 31, 1979, but before January 1, 1993;
- a recompletion commenced after January 1, 1993, the surface drilling of which began after December 31, 1979, but before January 1, 1993; or
- a recompletion commenced after December 31, 1979 but before 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
Senior Regulatory Analyst

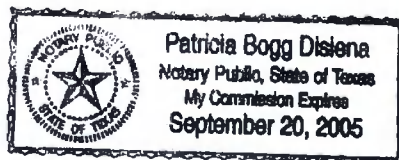
Subscribed in my presence and duly sworn to before me, this 13 day of February, 2003.



Notary Public

My Commission Expires:

BLM Affidavit





San Juan Performance Unit

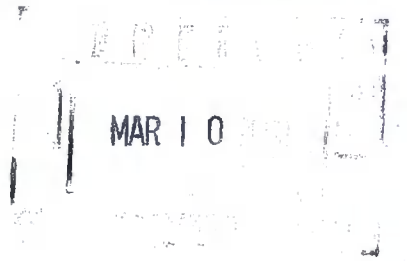
Mary Corley
WL1-19.171
281-366-4491 (direct)
281-366-0700 (FAX)
corleym1@bp.com

P. O. Box 3092
Houston, Texas 77253-3092
501 Westlake Park Boulevard
Houston, Texas 77079

February 12, 2003

State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Application For Well Category Determination
NGPA Section 107
Sullivan Gas Com Well No. 1A – Mesaverde
San Juan County, New Mexico**



API No. 30-045-24739

BP America 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,

A handwritten signature in cursive script that reads 'Mary Corley'.

Mary Corley
Sr. Regulatory Analyst

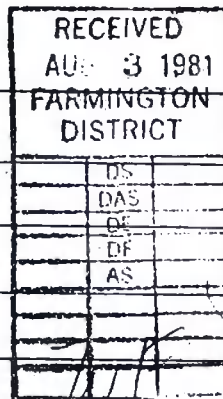
Enclosures

Cc: Working Interest Owners

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105
Revised 11-1-8



1a. TYPE OF WELL

1b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

5a. Indicate Type of Lease

State ☐ Fee ☒

5. State Oil & Gas Lease No.

2. Name of Operator
Amoco Production Company

3. Address of Operator
501 Airport Drive, Farmington, NM 87401

4. Location of Well

7. Unit Agreement Name

8. Farm. or Lease Name
Sullivan Gas Com

9. Well No.
1A

10. Field and Pool, or Wildcat
Blanco Mesaverde

UNIT LETTER **D** LOCATED **1130** FEET FROM THE **North** LINE AND **920** FEET FROM

11. Date Spudded **2-1-81** 16. Date T.D. Reached **2-8-81** 17. Date Compl. (Ready to Prod.) **6-20-81** 18. Elevations (DF, RKB, RT, GR, etc.) **5917' G. L.** 19. Elev. Casinghead

20. Total Depth **5217'** 21. Plug Back T.D. **5210'** 22. If Multiple Compl., How Many

23. Intervals Drilled By: Rotary Tools **O-TD** Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
4303'-5165'-Blanco Mesaverde

25. Was Directional Survey Made **No**

26. Type Electric and Other Logs Run
Induction Electric-GR; Compensated Densilog-Linear Porosity Neutron-GR; GR

27. Was Well Cored **No**

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.3#	306'	12-1/4"	325 Sx	
7"	23#	3100'	8-3/4"	610 Sx	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	2418'	5217'	305	

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	5168'	

31. Perforation Record (Interval, size and number) **4303'-4320', 4416'-4424', 4634'-4637', 4648'-4657', 4662'-4683', 4700'-4703', 4735'-4750', 4804'-4810', 4853'-4872', 4928'-4942', 4999'-5005', 5028'-5071', 5120'-5124', 5128'-5132, 5137'-5151', and 5156'-5165', with 2 SPF, a total of 390, .38" holes.**

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

CEMENT INTERVAL	AMOUNT AND KIND MATERIAL USED
4304'-5165'	170,332 gallons of frac fluid and 253,200 pounds of 10-20 sand.

33. PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)
Flowing

Well Status (Prod. or Shut-in)
Shut-in

Date of Test 7-8-81	Hours Tested 3 hrs.	Choke Size .75"	Prod'n. For Test Period	Oil - Bbl. 318	Gas - MCF 2545	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press. 198 PSIG	Casing Pressure 585 PSIG	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
To be sold.

Test Witnessed By

35. List of Attachments
044 - NM OGC, Log, etc. 2 production logs, 1 - A. P. Payne - Memo

36. 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.

Original Signed By
E. E. SVOBODA

SIGNED _____ TITLE **Dist. Admin. Supvr.** DATE **7-14-81**

CMD : ONGARD 04/28/03 10:30:44
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TP8P

API Well No : 30 45 24739 Eff Date : 09-01-1981 WC Status : A
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)
OGRID Idn : 778 BP AMERICA PRODUCTION COMPANY
Prop Idn : 1146 SULLIVAN GAS COM

Well No : 001A
GL Elevation: 5917

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn	: D	22	32N	10W	FTG 1130 F N	FTG 920 F W	P
Lot Identifier:							
Dedicated Acre:							318.85
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 04/28/03 10:31:00
OG6ACRE C102-DEDICATE ACREAGE OGOMES -TP8P
Page No : 1

API Well No : 30 45 24739 Eff Date : 04-30-1991
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)
Prop Idn : 1146 SULLIVAN GAS COM Well No : 001A
Spacing Unit : 35126 OCD Order : Simultaneous Dedication:
Sect/Twp/Rng : 22 32N 10W Acreage : 318.85 Revised C102? (Y/N) :
Dedicated Land:

S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	C		22	32N	10W	40.00	N	FE		
	D		22	32N	10W	40.00	N	FE		
	E		22	32N	10W	40.00	N	FE		
	F		22	32N	10W	40.00	N	FE		
	K		22	32N	10W	40.00	N	FE		
	L		22	32N	10W	40.00	N	FE		
	M		22	32N	10W	40.00	N	FE		
	N	6	22	32N	10W	38.85	N	FD		

E0005: Enter data to modify or PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07 BKWD	PF08 FWD	PF09	PF10 LAND	PF11 NXTSEC	PF12 RECONF

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

04/28/03 10:30:34
OGOMES -TP8P
PAGE NO: 2

Sec : 22 Twp : 32N Rng : 10W Section Type : NORMAL

L 40.00	K 40.00	J 40.00	5 37.45
Fee owned	Fee owned	Fee owned	Federal owned
M 40.00	6 38.85	7 36.61	8 37.35
Fee owned	Federal owned	Federal owned	Federal owned
A C	A		A

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

04/28/03 10:30:24
OGOMES -TP8P
PAGE NO: 1

Sec : 22 Twp : 32N Rng : 10W Section Type : NORMAL

D 40.00	C 40.00	2 37.88	1 37.91
Fee owned A	Fee owned	Federal owned	Federal owned
E 40.00	F 40.00	3 37.77	4 37.80
Fee owned	Fee owned	Federal owned	Federal owned A A

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

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

OIL CONSERVATION DIVISION

P.O. Box 2088

RECEIVED

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

Santa Fe, New Mexico 87504-2088

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

WELL API NO.

3004524739

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

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

Attention:

Amoco Production Company

Dallas Kalahar

8. Well No.

1 A

3. Address of Operator

P.O. Box 800

Denver

Colorado

80201

(303) 830-5129

9. Pool name or Wildcat

Blanco Mesaverde

4. Well Location

Unit Letter D : 1300 Feet From The North Line and 920 Feet From The West Line

Section 22

Township 32N

Range 10W

NMPM

San Juan

County

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

5917' GL

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: Bradenhead Repair ☐

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.

Service Unit rig up date 7/19/94. No perfs required, pumped 65 sxs cmt down bradenhead. Procedure ok by NMOCD, Charles Gholson. Pumped 13.5 sxs down bradenhead, logged old cmt top @ 362 ft, csg shoe @ 306 ft. SIBHP next day = 0 psi.
Clean out plugback 0 to 5,210 ft. Service Unit rig down date 7/21/94.

RECEIVED
AUG 24 1994
OIL CONSERVATION DIV.
DIST. 3

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

SIGNATURE

Dallas Kalahar / SO

TITLE

Business Analyst

DATE

08-22-1994

TYPE OR PRINT NAME

Dallas Kalahar

TELEPHONE NO. (303) 830-5129

(This space for State Use)

APPROVED BY

Charles Gholson

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #3

DATE

AUG 24 1994

CONDITIONS OF APPROVAL, IF ANY:

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

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

WELL API NO.

3004524739

5. Indicate Type of Lease

50

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

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

Attention:

Amoco Production Company

Dallas Kalahar

8. Well No.

#1A

3. Address of Operator

P.O. Box 800

Denver

Colorado

80201

(303) 830-5129

9. Pool name or Wildcat

Blanco Mesaverde

4. Well Location

Unit Letter

D

1130
1300

Feet From The

NORTH

Line and

920

Feet From The

WEST

Line

Section

22

Township

32N

Range

10W

NMPM

San Juan

County

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

5917' GL

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: Bradenhead Repair ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☒

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.

Amoco Production Company intends to perform the attached Bradenhead Repair to eliminate Bradenhead pressure.

See attached for workover procedure.

In addition, Amoco also requests approval to construct a 15'x15'x5' blow pit for return fluids. This pit will be reclaimed if utilized, upon completion of this procedure.

If any questions, please contact Dallas Kalahar at 303-830-5129.

RECEIVED
AUG 10 1994

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

Dallas Kalahar

TITLE

Business Analyst

DATE

08-05-1994

TYPE OR PRINT NAME

Dallas Kalahar

TELEPHONE NO.

(This space for State Use)

APPROVED BY

Charles Shulman

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #3

AUG 10 1994

CONDITIONS OF APPROVAL, IF ANY:

**BRADENHEAD PROCEDURES
FOR
SULLIVAN GAS COM 1 A
July 17, 1994
30-045-2473900 : MV**

1. Record tubing, shut-in casing and shut-in bradenhead pressures.
2. MIRUSU.
3. NUBOP and test BOP.
4. TOH with tubing and check tubing.
5. TIH with RBP and set at 4250'.
6. Pressure test 7" casing to 2000 psi. If any leak is found, locate them and call Khanh Vu in Denver before proceeding.
7. Run a GR/CBL from 2400' to determine cement top for 7" casing.
8. Perforate 2 squeeze holes within 100' of TOC.
9. Use dye to calculate cement volume, pump 200% of cement volume, and circulate cement to surface.
10. WOC at least 24 hours.
11. TIH with bit and scraper and drill out cement.
12. Pressure test squeeze perms to 1000 psig. If pressure test does not hold, resqueeze.
13. Clean out with nitrogen to PBTD at 5210', retrieve all RBPs.
14. Land 2 3/8" tubing at 5180' with a 1/2 mule shoe on bottom and seating nipple one joint off bottom.\
15. NDBOP. NU well head.
16. Tie well back into surface equipment and put on production.

RECEIVED
MAY 10 1994

OFFICE OF THE
SULLIVAN GAS COMPANY

30-045-2473900

30-045-2473900

Submit 5 Copies
Appropriate District Office
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

OIL CONSERVATION DIVISION

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

OIL CONSERVATION DIVISION

RECEIVED

Form C-104
Revised 1-4-88
See Instructions
at Bottom of Page

'90 AUG 22 AM 10 28

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator AMOCO PRODUCTION COMPANY		Well API No. 300452473900
Address P.O. BOX 800, DENVER, COLORADO 80201		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input checked="" type="checkbox"/>
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name SULLIVAN GAS COM	Well No. 1A	Pool Name, Including Formation BLANCO MESAVERDE (PRODUCED GAS)	Kind of Lease State, Federal or (Fee)	Lease No.
Location				
Unit Letter D	1130	Feet From The FNL	Line and 920	Feet From The FWL
Section 22	Township 32N	Range 10W	SAN JUAN County	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
MERIDIAN OIL INC.	3535 EAST 30TH STREET, FARMINGTON, CO 87401
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)
EL PASO NATURAL GAS COMPANY	P.O. BOX 1492, EL PASO, TX 79978
If well produces oil or liquids, give location of tanks.	Unit Soc. Twp. Rge. Is gas actually connected? When?

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
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

TUBING CASING AND CEMENTING RECORD

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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SANTA FE

Form C-104
Revised 10-01-78
Format 08-01-83
Page 1

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

NO. OF LINES OWNED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.A.	
LAND OFFICE	
TRANSPORTER	OIL
OPERATOR	GAS
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
Amoco Production Company
Address
501 Airport Drive Farmington, NM 87401

Reason(s) for filing (Check proper box)
☐ New Well
☐ Recombination
☐ Change in Ownership
☐ Change in Transporter of:
☐ Oil
☐ Condensate Gas
☒ Dry Gas
☒ Condensate
 Other (Please explain):

If change of ownership give name and address of previous owner:

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DIST. 3

II. DESCRIPTION OF WELL AND LEASE

Lease Name: **Sullivan Gas Com** Well No.: **1A** Pool Name, including Formation: **Blanco Mesaverde** Kind of Lease: **Fee** Lease No.:
 Location: **D** : **1130** Feet From The **North** Line and **920** Feet From The **West**
 Line of Section **22** Township **32 N** Range **10 W** , NMPL: **San Juan** County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒
Permian Corp. Permian (Eff. 9/1/78)
 Address (Give address to which approved copy of this form is to be sent):
P. O. Box 1702 Farmington, NM 87499
 Name of Authorized Transporter of Gashead Gas ☐ or Dry Gas ☒
El Paso Natural Gas Company
 Address (Give address to which approved copy of this form is to be sent):
P. O. Box 990 Farmington, NM 87401
 If well produces oil or liquids, give location of tanks: Unit **D** Sec. **22** Twp. **32N** Rge. **10W**
 Is gas actually connected? ☐ when

If this production is commingled with that from any other lease or pool, give commingling order number:
 NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

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

B.D. Shaw
 (Signature)
 Admin. Supervisor
 (Title)
 1-2-85
 (Date)

OIL CONSERVATION DIVISION

APPROVED **FEB 15 1985**
 BY **Frank J. [Signature]**
 TITLE **SUPERVISOR DISTRICT # 3**

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
 All sections of this form must be filled out completely for allowable on new and recompleted wells.
 Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
 Separate Forms C-104 must be filed for each pool in multiply completed wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

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LAND OFFICE	
TRANSPORTER	OIL
	NATURAL GAS
OPERATOR	
REGISTRATION OFFICE	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator: Amoco Production Company
Address: 501 Airport Drive Farmington, NM 87401

Reason(s) for filing (Check proper box):
☐ New Well
☐ Recompletion
☐ Change in Ownership
 Change in Transporter of:
☐ Oil
☐ Condensate Gas
☒ Dry Gas
☒ Condensate

Other (Please explain):
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 DIST. 3

If change of ownership give name and address of previous owner:

II. DESCRIPTION OF WELL AND LEASE

Lease Name: Sullivan Gas Com Well No. 1A Pool Name, including Formation: Blanco Mesaverde Kind of Lease: Fee Lease No. _____

Location: D : 1130 Feet From The North Line and 920 Feet From The West Line of Section 22 Township 32 N Range 10 W N.M.P.L. San Juan County _____

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Permian Corp. Address (Give address to which approved copy of this form is to be sent): P. O. Box 1702 Farmington, NM 87499

Name of Authorized Transporter of Gashead Gas ☐ or Dry Gas ☒ El Paso Natural Gas Company Address (Give address to which approved copy of this form is to be sent): P. O. Box 990 Farmington, NM 87401

If well produces oil or liquids, give location of tanks: Unit D Sec. 22 Twp. 32N Rge. 10W Is gas actually connected? ☐ When _____

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

NOTE: Complete Parts IV and V on reverse side if necessary.

IV. 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 is true and complete to the best of my knowledge and belief.

B.D. Shaw
(Signature)
Admin. Supervisor
(Title)
1-2-85
(Date)

OIL CONSERVATION DIVISION

APPROVED FEB 15 1985
BY [Signature]
TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiply completed wells.

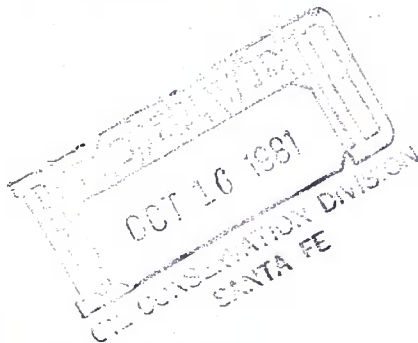
EL PASO NATURAL GAS COMPANY
POST OFFICE BOX 990
FARMINGTON, NEW MEXICO

NOTICE OF GAS CONNECTION

DATE September 21, 1981

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR PURCHASE OF

GAS FROM <u>Amoco Production Company</u>		<u>Sullivan Gas Com #1-A</u>	
Operator		Well Name	
<u>93-929-01</u>	<u>70760-51</u>	<u>D</u>	<u>22-32-10</u>
Meter Code	Site Code	Well Unit	S-T-R
<u>Blanco Mesaverde</u>		<u>El Paso Natural Gas Company</u>	
Pool		Name of Purchaser	

WAS MADE ON September 8, 1981
DateFIRST DELIVERY September 11, 1981
DateAOF 9,538CHOKE 2,545El Paso Natural Gas Company
Purchaser
RepresentativeChief Dispatcher
Titlecc: Operator Farmington
Oil Conservation Commission - 2
Proration - El Paso

File

045
S
PLA

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special						Test Date 7-8-81	
Company Amoco Production Company				Connection El Paso Natural Gas Company			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 6-21-81		Total Depth 5230		Plug Back TD 5210		Elevation 5917 KB	
Farm or Lease Name Sullivan Gas Com							
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 5217	Perforations: From 4303 To 5165		Well No. 1A	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5168	Perforations: From open To ended		Unit Sec. Twp. Rge. 22 32N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	9 Days						597		644		
1.	2.375	.750					198		585		3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		210	1.000	.9608	1.020	2545
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	2	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbon _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 656	P _c ² 430336	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.8211$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.7476$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	597	356409	73927
2			
3			
4			
5			

Absolute Open Flow 9538 Mcfd @ 15.025		Angle of Slope 6		Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: JJB	Calculated By: J.J. Barnett	Checked By:
-------------------------	----------------------	--------------------------------	-------------

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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LAND OFFICE	
TRANSPORTER	OIL
	NATURAL GAS
OPERATOR	
PRODUCTION OFFICE	

Operator Amoco Production Company	
Address 501 Airport Drive, Farmington, NM 87401	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of ownership give name
and address of previous owner _____

I. DESCRIPTION OF WELL AND LEASE

Lease Name Sullivan Gas Com	Well No. 1A	Pool Name, including Formation Blanco Mesaverde	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Unit Letter <u>D</u> ; <u>1130</u> Feet From The <u>North</u> Line and <u>920</u> Feet From The <u>West</u> Line of Section <u>22</u> Township <u>32N</u> Range <u>10W</u> , NMPM, San Juan County				

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Ptateau Incorporated	P.O. Box 26251, Albuquerque, NM 87125					
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)					
El Paso Natural Gas Company	P.O. Box 990, Farmington, NM 87401					
If well produces oil or liquids, give location of tanks.	Unit D	Sec. 22	Twp. 32N	Rge. 10W	Is gas actually connected? No	When

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

V. 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 2-1-81	Date Compl. Ready to Prod. 6-20-81		Total Depth 5217'		P.B.T.D. 5210'			
Elevations (DF, RKB, RT, GR, etc.) 5917' G.L.	Name of Producing Formation Blanco Mesaverde		Top Oil/Gas Pay 4303'		Tubing Depth 5168'			
Perforations 4303'-4320', 4416'-4424', 4634'-4637', 4648'-4657', 4662'-4683', 4700'-4703', 4735'-4750', 4804'-4810', 4853'-4872', 4928'-4942', 4999'-5005', 5028'-5071', 5120'-5124', 5128'-5132', 5137'-5151', and 5156'-5165'. TUBING, CASING, AND CEMENTING RECORD					Depth Casing Shoe 5217'			
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/4"	9 5/8" 32.3#		306'		325			
8 3/4"	7" 23#		3100'		610			
6 1/4"	4 1/2" Liner		5217'		305			
	2 3/8"		5168'					

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 Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 2545	Length of Test 3 Hrs.	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shot-in) 597 PSIG	Casing Pressure (Shot-in) 644 PSIG	Choke Size .75"

I. 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.

Ed Svoboda
(Signature)
District Administrative Supervisor
(Title)
JUL 14 1981
(Date)

OIL CONSERVATION DIVISION

APPROVED Frank J. Gony JUL 15 1981
BY _____
TITLE _____ SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened
well, this form must be accompanied by a tabulation of the deviation
tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allow-
able on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner,
well name or number, or transporter or other such change of condition
Separate Forms C-104 must be filed for each pool in multiply

4999'-5005', 5028'-5071', 5120'-5124', 5128'-5132', 5137'-5151', and 5156'-5165'.

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J.S.G.S.		
LAND OFFICE		
OPERATOR		

Form C-105
Revised 11-1-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

2. TYPE OF COMPLETION

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

Name of Operator

Amoco Production Company

Address of Operator

501 Airport Drive, Farmington, NM 87401

Location of Well

7. Unit Agreement Name

8. Farm or Lease Name

Sullivan Gas Com

9. Well No.

1A

10. Field and Pool, or Wildcat

Blanco Mesaverde

UNIT LETTER D LOCATED 1130 FEET FROM THE North LINE AND 920 FEET FROM

16 West LINE OF SEC. 22 TWP. 32N RGE. 10W ==NMPM

12. County

San Juan

13. Date Spudded 2-1-81 16. Date T.D. Reached 2-8-81 17. Date Compl. (Ready to Prod.) 6-20-81 18. Elevations (DF, RKB, RT, GR, etc.) 5917' G. L. 19. Elev. Casinghead

20. Total Depth

5217'

21. Plug Back T.D.

5210'

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

O-TD

Cable Tools

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

4303'-5165'-Blanco Mesaverde

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

Induction Electric-GR; Compensated Densilog-Linear Porosity Neutron-GR; GR

27. Was Well Cored

No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.3#	306'	12-1/4"	325 Sx	
7"	23#	3100'	8-3/4"	610 Sx	

3. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	2418'	5217'	305		2-3/8"	5168'	

30. TUBING RECORD

1. Perforation Record (Interval, size and number) 4303'-4320', 4416'-424', 4634'-4637', 4648'-4657', 4662'-4683', 700'-4703', 4735'-4750', 4804'-4810', 4853'-872', 4928'-4942', 4999'-5005', 5028'-5071', 120'-5124', 5128'-5132, 5137'-5151', and 5156'-165', with 2 SPF, a total of 390, .38" holes.

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

DEPT. INTERVAL	AMOUNT AND KIND MATERIAL USED
4304'-5165'	170,332 gallons of frac fluid and 253,200 pounds of 10-20 sand.
	AUG - 4 1981

3. PRODUCTION

4. Date First Production 7-8-81 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
7-8-81	3 hrs.	.75"			318		
Low Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil - Gas Ratio (Bbl./Mcf)	
98 PSIG	585 PSIG			2545			

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

To be sold.

Test Witnessed By

6. List of Attachments

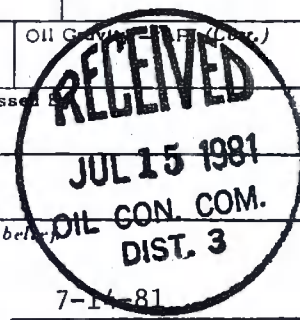
7. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

TITLE Dist. Admin. Supvr.

DATE

7-14-81



INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission 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 30 through 34 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

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	1115-Est.	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	2280-Est.	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	2750 Est.	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	4630	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	4705	T. Madison
T. Queen	T. Silurian	T. Point Lookout	5025	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	5183	T. McCracken
T. San Andres	T. Simpson	T. Gallup		T. Ignacio Qtzte
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. Granite	T. Todilto		T.
T. Drinkard	T. Delaware Sand	T. Entrada		T.
T. Abo	T. Bone Springs	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.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

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.	
No. 4, from.....to.....feet.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1115	1300	185	OJO Alamo - Estimate				
1300	1490	190	Kirtland Shale				
1490	2010	520	Farmington Sand				
2010	2280	170	Kirtland Shale				
2280	2750	470	Kirtland - Fruitland Sand				
2750	3000	250	Pictured Cliffs				
3000	4630	1630	Lewis Shale				
4630	4705	75	Cliff House				
4705	5025	320	Menefee				
5025	5183	158	Point Lookout				
5183	TD		Mancos				

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

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.)

OIL WELL ☐ GAS WELL ☒ OTHER ☐

Name of Operator

Amoco Production Company

Address of Operator

501 Airport Drive, Farmington, NM 87401

Location of Well

UNIT LETTER D 1130 FEET FROM THE North LINE AND 920 FEET FROM

THE West LINE, SECTION 22 TOWNSHIP 32N RANGE 10W NMPM.

7. Unit Agreement Name

8. Farm or Lease Name

Sullivan Gas Com

9. Well No.

1A

10. Field and Pool, or Wildcat

Blanco Mesaverde

15. Elevation (Show whether DF, RT, GR, etc.)

5917' GL

12. County

San Juan

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 ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

PULL OR ALTER CASING ☐

CHANGE PLANS ☐

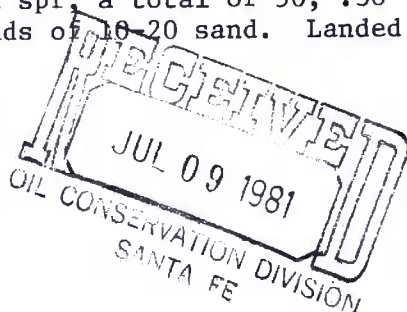
CASING TEST AND CEMENT JOB ☐

OTHER Completion Operations ☒

OTHER ☐

7. 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.

Completion operations commenced on 6-8-81. Total depth of the well is 5217' and the plug-back depth is 5210. Perforated intervals from 4928-4942, 4999-5005, 5028-5071, 5120-5124, 5128-5132, 5137-5151, and 5156-5165, with 2 spf, a total of 188, .38" holes. Fraced the Mesaverde formation with 87,572 gallons of frac fluid and 129,000 pounds of 10-20 sand. Perforated intervals from 4634-4637, 4648-4657, 4662-4683, 4700-4703, 4735-4750, 4804-4810, and 4853-4872, with 2 spf, a total of 152, .38" holes. Fraced second stage with 38,960 gallons of frac fluid and 54,700 pounds of 10-20 sand. Perforated intervals from 4303-4320 and 4416-4424, with 2 spf, a total of 50, .38" holes. Fraced with 43,800 gallons of frac fluid and 69,500 pounds of 10-20 sand. Landed the 2 3/8" tubing at 5168'. Released the rig on 6-20-81.



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

SIGNED [Signature]

TITLE Dist. Admin. Supvr.

DATE 6-24-81

APPROVED BY [Signature]

TITLE SUPERVISOR DISTRICT # 3

DATE JUN 26 1981

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO OPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL ☐ GAS WELL ☒ OTHER-

Name of Operator

AMOCO PRODUCTION COMPANY

Address of Operator

501 Airport Drive, Farmington, New Mexico 87401

Location of Well

UNIT LETTER D 1130 FEET FROM THE North LINE AND 920 FEET FROM

THE West LINE, SECTION 22 TOWNSHIP 32N RANGE 10 W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)

5917' GL

7. Unit Agreement Name

8. Farm or Lease Name

Sullivan Gas Com

9. Well No.

1A

10. Field and Pool, or Wildcat

Blanco Mesaverde

12. County

San Juan

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 ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

PULL OR ALTER CASING ☐

CHANGE PLANS ☐

CASING TEST AND CEMENT JOB ☐

OTHER Spud and Set Casing ☒

OTHER ☐

7. 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.

Spudded a 12 1/4" hole on 2-1-81, and drilled to 318'. Set 9 5/8" 32 3/4" surface casing at 306' on 2-1-81 and cemented with 325 sx of class "B" neat cement containing 2% CaCl₂. Good cement was circulated to the surface. Drilled a 8 1/4" hole to a depth of 3100'. Set 7" 23 # intermediate casing on 2-6-81 at 3100' and cemented with 510 sx of class "B" neat cement containing 50/50 POZ, 6% gel, 2# medium plug per sack, and .8% fluid loss additive. This was tailed in with 75 sx of class "B" neat cement. Good cement was circulated to the surface. Drilled a 6 1/4" hole to a TD of 5217'. Set a 4 1/2" liner 5217' on 2-9-81, and cemented with 235 sx of class "B" neat cement containing 50/50 POZ, 6% gel, 2# medium plug per sack, and .8% fluid loss additive. This was tailed in with 75 sx of class "B" neat cement. No cement was circulated to the surface.

The rig was released on 2-9-81.

MAR 02 1981

OIL CONSERVATION DIVISION

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

SIGNED Frank J. Long

TITLE Dist. Admin. Supvr

DATE 2/13/81

APPROVED BY Frank J. Long

TITLE SUPERVISOR DISTRICT #3

DATE FEB 17 1981

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

30-045-24739

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. Type of Well

OIL WELL ☐

GAS WELL ☒

OTHER

Infill

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. Name of Operator

Amoco Production Company

3. Address of Operator

Petroleum Center Building

501 Airport Drive

4. Location of Well

Farmington, New Mexico 87401

UNIT LETTER LOCATED FEET FROM THE North LINE

AND 920

FEET FROM THE West LINE OF SEC. 22 TWP. 32N RGE. 10W NMPM

7. Unit Agreement Name

8. Farm or Lease Name

Sullivan Gas Com

9. Well No.

10. Field and Pool, or Wildcat

Blanco - Mesaverde

12. County

San Juan

21. Elevations (Show whether DF, RT, etc.)

5917' GL

21A. Kind & Status Plug. Bond

Statewide

19. Proposed Depth

5800'

19A. Formation

Dakota

20. Rotary or C.T.

Rotary

21B. Drilling Contractor

Unknown

22. Approx. Date Work will start

as soon as permitted

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	9 5/8"	32.3 #	300'	300	Surface
8 3/4"	7 "	20 #	3500'	500	Surface
6 1/4"	4 1/2"	10.5 #	5800'	300	3300

Amoco proposes to drill the above well to further develop the Basin Dakota reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hold logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design.

Upon completion the well location will be cleaned and the reserve pit filled and leveled.

Gas produced from this well is ~~dedicated~~ dedicated to a gas sales contract.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 3-12-81



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.

Signed Wayne Peterson Title District Engineer Date December 9, 1980

(This space for State Use)

APPROVED BY Frank J. Chazy TITLE SUPERVISOR DISTRICT # 3 DATE DEC 12 1980

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

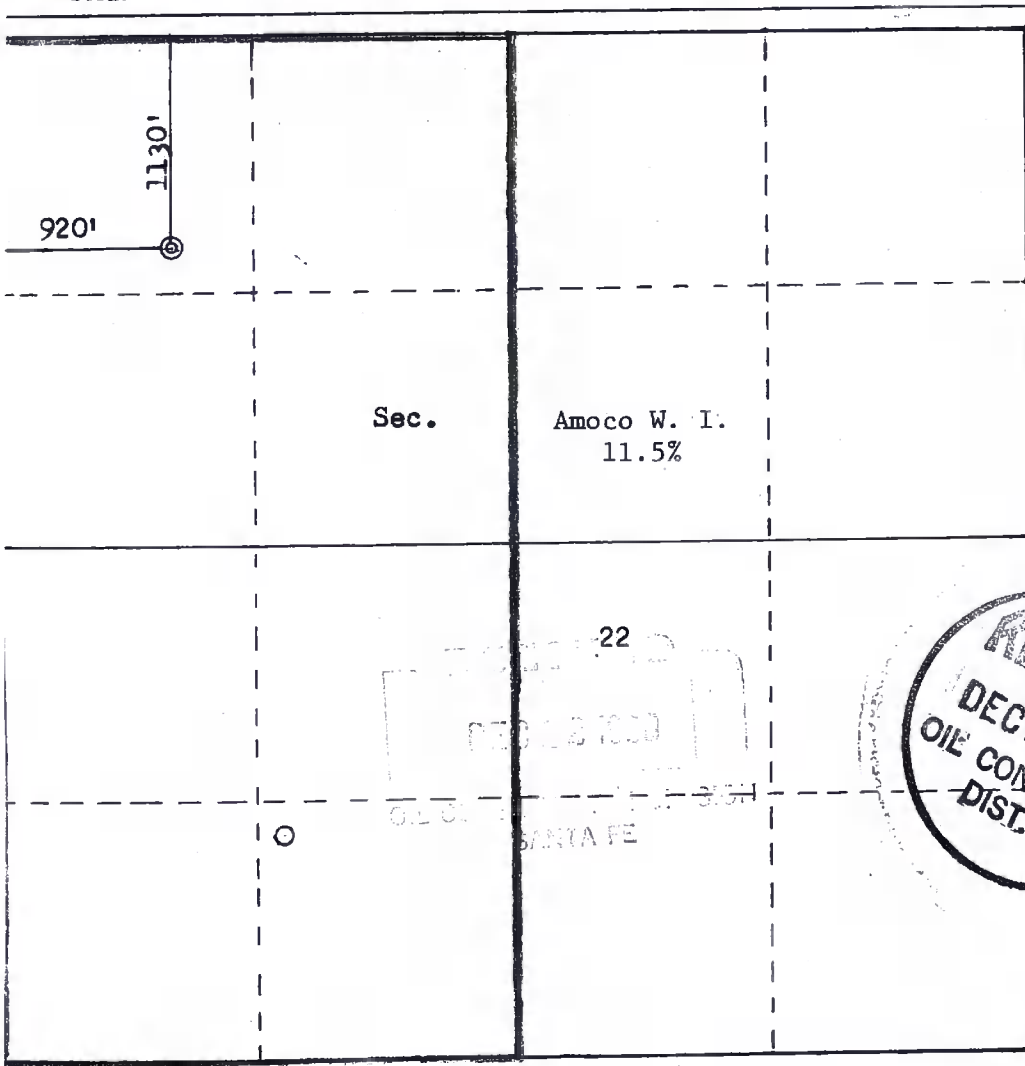
Operator AMOCO PRODUCTION COMPANY			Lease SULLIVAN GAS COM		Well No. 1A
Unit Letter D	Section 22	Township 32N	Range 10W	County San Juan	
Actual Footage Location of Well: 1130 feet from the North line and 920 feet from the West line					
Ground Level Elev: 5917	Producing Formation Mesa Verde		Pool Blanco Mesaverde		Dedicated Acreage: 318.85 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

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 interests, has been approved by the Commission.



CERTIFICATION

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

Wayne L. Peterson

Name
W. L. Peterson

Position
District Engineer

Company
Amoco Production Company

Date
November 25, 1980

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.

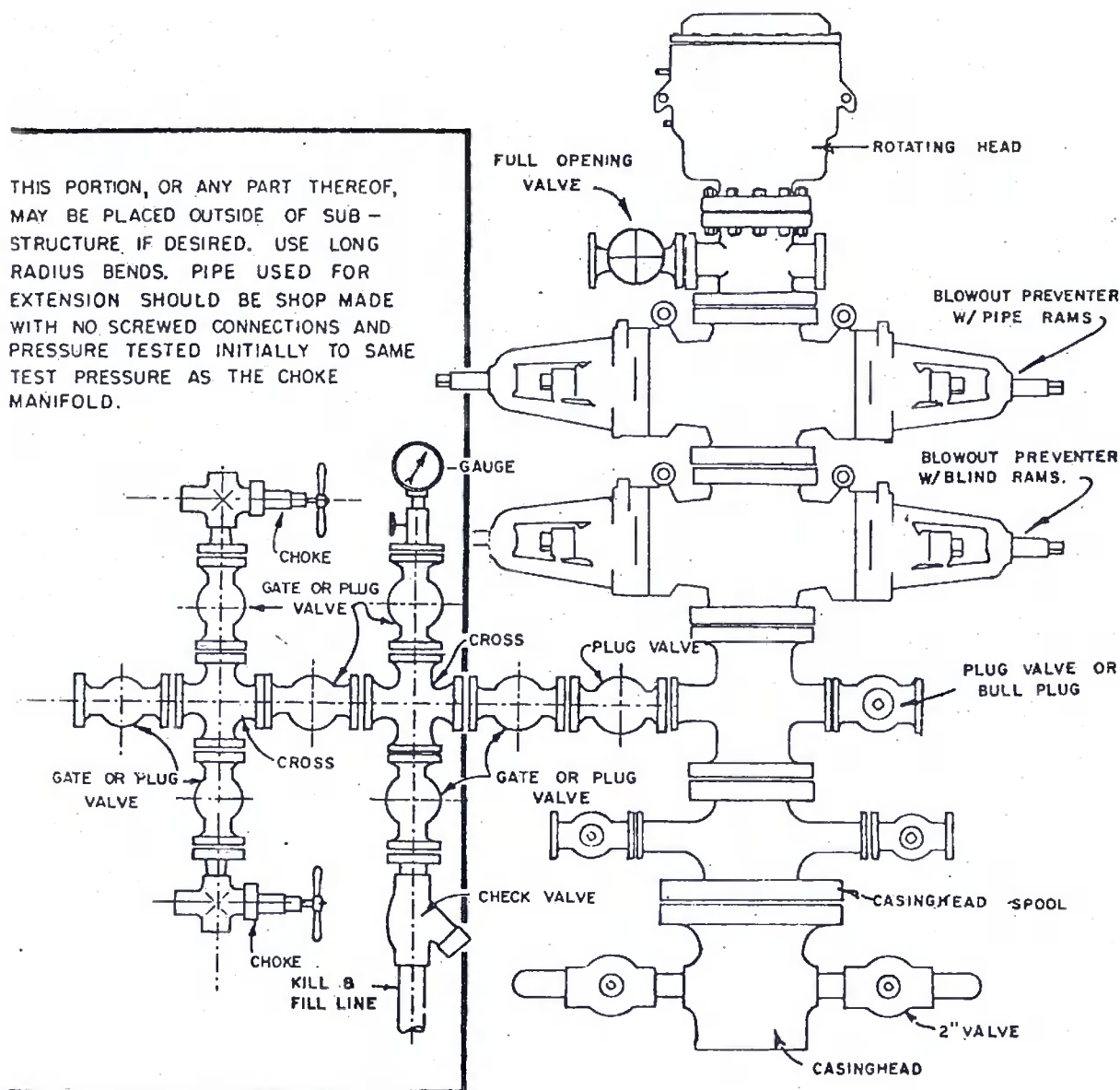
Date Surveyed
November 19, 1980

Registered Professional Engineer and Land Surveyor

Fred B. Kerr, Jr.

Certificate No. **3950**
B. KERR, JR.

- Blowout Preventers and Master Valve to be kept operated, and all fittings must be in good condition.
- Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
 - Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
 - All fittings to be flanged.
 - Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.



San Juan Performance Unit

Mary Corley
WL1-19.171
281-366-4491 (direct)
281-366-0700 (FAX)
corleym1@bp.com

P. O. Box 3092
Houston, Texas 77253-3092
501 Westlake Park Boulevard
Houston, Texas 77079

February 12, 2003

State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
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 \$125.00 payable to the State of New Mexico for NGPA Section 107 Well Category Determinations for the below listed BP America Production Company wells.

Lopez Gas Com 1E	Dakota Pool	NM - 34
Schneider Gas Com C 1	Dakota Pool	NM - 09
Jacquez Gas Com F 1	Dakota Pool	NM - 09
Sullivan Gas Com 1A	Mesaverde	NM - 48
Hubbard A 1E	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
Sr. Regulatory Analyst

Enclosures



BP America Production Company
509 South Boston
Tulsa, OK 74103

82-20
311

No. 0800552148

02/19/03

PAY TO THE
ORDER OF

STATE OF NEW MEXICO
2040 PACHEO ST
SANTA FE NM 87505

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$125.00

NOT VALID AFTER 6 MONTHS

One Hundred Twenty Five and 00/100 Dollars

TRACE NO.: 2000040813

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


AUTHORIZED SIGNATURE

⑈0800552148⑈ ⑆031100209⑆

39116481⑈

Allen F. Buckingham
Minerals Division (NGPA)
Bureau of Land Management
435 Montano NE
Albuquerque, New Mexico 87107

December 29, 1992

William J. LeMay, Director
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504

Re: Application For Tight Formation Designation
Mesaverde Group
Blanco Mesaverde Area - Blanco Mesaverde Pool
San Juan and Rio Arriba Counties, New Mexico

Pursuant to the regulations of the Federal Energy Regulatory Commission (FERC), Amoco Production Company hereby makes application for designation of the Mesaverde Group as a "Tight Formation" in the following described lands in the Blanco Mesaverde Area of the Blanco Mesaverde Pool of San Juan and Rio Arriba counties, New Mexico:

Township 27 North, Range 7 West

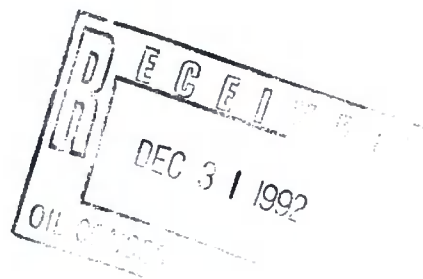
Sections 01 - 12:	All
Section 15:	W/2
Sections 16 - 21:	All
Section 22:	W/2
Section 27:	NW/4
Section 28:	N/2
Sections 29 - 30:	All

Township 27 North, Range 8 West

Sections 1 - 36: All

Township 28 North, Range 7 West

Sections 7 - 36: All
(irregular township)



Township 28 North, Range 8 West

Sections 7 - 36: All
(irregular township)

Township 28 North, Range 9 West

Sections 7 - 36: All
(irregular township)

Township 28 North, Range 10 West

Sections 7 - 36: All
(irregular township)

Township 29 North, Range 7 West

Sections 1 - 36: All

Township 29 North, Range 8 West

Sections 1 - 36: All

Township 29 North, Range 9 West

Sections 1 - 36: All

Township 29 North, Range 10 West

Sections 1 - 36: All

Township 29 North, Range 11 West

Sections 1 - 36: All

Township 30 North, Range 7 West

Sections 1 - 36: All

Township 30 North, Range 8 West

Sections 1 - 36: All

Township 30 North, Range 9 West

Sections 1 - 36: All

Township 30 North, Range 10 West

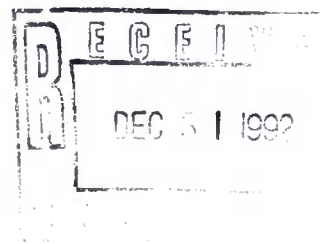
Sections 1 - 36: All

Township 30 North, Range 11 West

Sections 1 - 36: All

Township 31 North, Range 6 West

Sections 6, 7, 18, 19, and 30: All



Township 31 North, Range 7 West
Sections 1 - 36: All

Township 31 North, Range 8 West
Sections 1 - 36: All

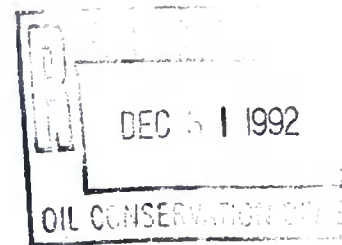
Township 31 North, Range 9 West
Sections 1 - 36: All

Township 31 North, Range 10 West
Sections 1 - 36: All

Township 31 North, Range 11 West
Sections 1 - 36: All

Township 32 North, Range 10 West
Sections 1 - 36: All

Township 32 North, Range 11 West
Sections 1 - 36: All



hereafter referred to as the subject land.

Included in this application are the documentation and exhibits necessary to support the following:

1. Amoco Production Company (Amoco) is an operator and owner of substantial mineral interest in the subject land.
2. The Mesaverde Group underlies the subject land and is productive of gas and associated hydrocarbon. In the northern two-thirds of the application area, the vertical limits of the Mesaverde are defined by the New Mexico Oil Conservation Division in the Blanco Mesaverde Pool as the interval from the top of the Huerfanito Bentonite downward to a point 500 feet below the top of the Point Lookout Formation. These vertical limits are requested for the entire application area in order to obtain a uniform evaluation.
3. The estimated average in situ gas permeability throughout the pay section is expected to be 0.1 millidarcy or less.
4. The established production rate, against atmospheric pressure, of wells completed for production in the Mesaverde Group, without stimulation, is not expected to exceed the maximum production rate prescribed by the FERC regulations.
5. No well drilled into the Mesaverde Group is expected to produce, without stimulation, more than five barrels of crude oil per day.

6. Development of the Mesaverde Group will not adversely affect fresh water aquifers that may be used a domestic and agricultural water supplies.

Also attached are the Affidavits of Publication of Notice from the Farmington Daily Times of Farmington in San Juan County and Rio Grande Sun of Espanola in Rio Arriba County, New Mexico, and a Statement of Oath signed by each individual involved in the preparation of this application and notarized as to the accuracy and interpretation of same.

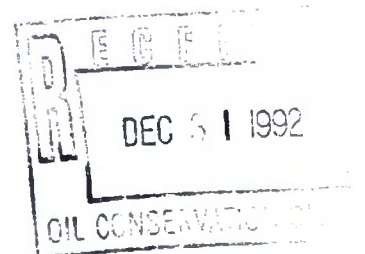
Sincerely,

AMOCO PRODUCTION COMPANY

J.W. Hawkins

JWH/MEW

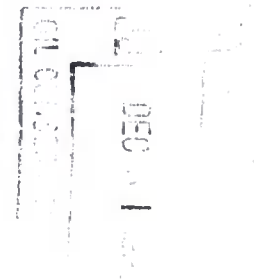
Enclosure



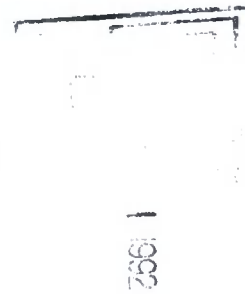
BLANCO MESAVERDE TIGHT FORMATION GAS AREA - San Juan and Rio Arriba Cos., New Mexico
- PROPOSED LANDS AND MESAVERDE FORMATION OWNERSHIP -

<u>Land Description</u>	<u>Total Acreage</u>	<u>Federal</u>	<u>Fee</u>	<u>State</u>	<u>Indian</u>
<u>T31N, R 6W, NMPM</u>					
Sec. 6: All	2,900.00	2,900.00	0.00	0.00	0.00
Sec. 7: All					
Sec. 18: All					
Sec. 19: All					
Sec. 30: All					
<u>T27N, R 7W, NMPM</u>					
Secs. 1-12: All	13,922.00	12,645.00	0.00	1,278.00	0.00
Sec. 15: W/2					
Secs. 16-21: All					
Sec. 22: W/2					
Sec. 27: NW/4					
Sec. 28: N/2					
Secs. 29-30: All					
<u>T28N, R 7W, NMPM</u>					
Secs. 7-36: All	17,046.00	16,729.00	317.00	0.00	0.00
(Entire Township)					
<u>T29N, R 7W, NMPM</u>					
All	23,040.00	14,160.00	6,320.00	2,560.00	0.00
<u>T30N, R 7W, NMPM</u>					
All	22,400.00	18,440.00	1,400.00	2,560.00	0.00
<u>T31N, R 7W, NMPM</u>					
All	21,740.00	18,550.00	1,400.00	1,790.00	0.00
<u>T27N, R 8W, NMPM</u>					
All	23,058.00	19,531.00	0.00	2,562.00	965.00
<u>T28N, R 8W, NMPM</u>					
Secs. 7-36: All	16,960.00	16,960.00	0.00	0.00	0.00
(Entire Township)					
<u>T29N, R 8W, NMPM</u>					
All	22,080.00	19,840.00	0.00	2,240.00	0.00

<u>Land Description</u>	<u>Total Acreage</u>	<u>Federal</u>	<u>Fee</u>	<u>State</u>	<u>Indian</u>
<u>T30N, R 8W, NMPM</u> All	22,080.00	18,000.00	1,680.00	2,400.00	0.00
<u>T31N, R 8W, NMPM</u> All	22,320.00	18,960.00	800.00	2,560.00	0.00
<u>T28N, R 9W, NMPM</u> Secs. 7-36 (Entire Township)	16,909.00	15,629.00	0.00	640.00	640.00
<u>T29N, R 9W, NMPM</u> All	22,045.00	15,406.00	4,079.00	2,560.00	0.00
<u>T30N, R 9W, NMPM</u> All	22,080.00	18,200.00	1,800.00	2,080.00	0.00
<u>T31N, R 9W, NMPM</u> All	22,240.00	18,760.00	920.00	2,560.00	0.00
<u>T28N, R10W, NMPM</u> Secs. 7-36: All (Entire Township)	16,958.00	16,678.00	160.00	120.00	0.00
<u>T29N, R10W, NMPM</u> Secs. 1-36: All	22,698.00	13,260.00	7,750.00	1,688.00	0.00
<u>T30N, R10W, NMPM</u> All	23,040.00	20,760.00	160.00	2,120.00	0.00
<u>T31N, R10W, NMPM</u> All	23,040.00	17,040.00	3,760.00	2,240.00	0.00
<u>T32N, R10W, NMPM</u> All	17,280.00	13,080.00	2,800.00	1,400.00	0.00
<u>T29N, R11W, NMPM</u> All	22,794.00	10,479.00	1,548.00	10,767.00	0.00
<u>T30N, R11W, NMPM</u> All	23,126.00	11,075.00	2,000.00	10,051.00	0.00



<u>Land Description</u>	<u>Total Acreage</u>	<u>Federal</u>	<u>Fee</u>	<u>State</u>	<u>Indian</u>
<u>T31N,R11W, NMPM</u>					
All	23,040.00	18,638.00	2,521.00	1,881.00	0.00
<u>T32N,R11W, NMPM</u>					
All	17,280.00	12,000.00	3,360.00	1,920.00	0.00
 Totals:	 480,076.00	 377,720.00	 42,775.00	 57,977.00	 1,605.00
Percentage:	100.0000%	78.6792%	08.9100%	12.0766%	00.3343%





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



BRUCE KING
GOVERNOR

July 26, 1993

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

ANITA LOCKWOOD
CABINET SECRETARY

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

Dear Mr. Buckingham:

Re: BLM Docket No. NM-1813-92

Enclosed are two signed original letters of concurrence for Amoco Production Company's tight formation area designated the "Blanco-Mesaverde Area" comprising 480,076 acres, more or less, in Townships 27, 28, 29, 30, 31 and 32 North, Ranges 6, 7, 8, 9, 10 and 11 West, NMPM, San Juan and Rio Arriba Counties, New Mexico. Please submit one 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

July 26, 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:

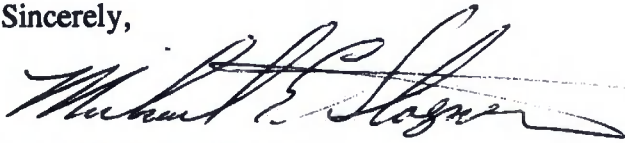
This letter is to be included with the submission of U.S. Bureau of Land Management (USBLM) designation, assigned Docket No. NM-1813-92, to the Federal Energy Regulatory Commission (FERC). Said designation is for a "tight formation" in the State of New Mexico. The formation referred to is the Mesaverde formation designated the "Blanco Mesaverde Area" comprising 480,076 acres, more or less, (78.68% federal, 12.08% state, 0.33% Navajo Indian allotted and 8.91% fee) all within the Blanco-Mesaverde Pool, San Juan and Rio Arriba Counties, 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, Amoco Production Company. 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
July 26, 1993
Page 2

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

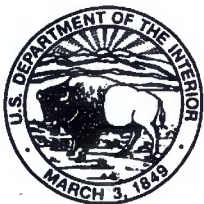
Sincerely,

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

MICHAEL E. STOGNER
Chief Hearing Officer/Engineer

MES/ms

cc: Oil Conservation Division - Aztec
Amoco Production Company - Denver, CO (J. W. Hawkins)
U.S. Bureau of Land Management - Santa Fe (Steve Salzman)
Rose Exploration - Denver, CO (M.E. Wynne)



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 071 878 823
RETURN RECEIPT REQUESTED

July 26, 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 Mesaverde formation underlying the following described lands in the Blanco Mesaverde Area of the Blanco Mesaverde Pool located in San Juan and Rio Arriba Counties, New Mexico, as a tight formation, BLM Docket No. NM-1813-92, under Section 107 of the NGPA:

Township 27 North, Range 7 West, NMPM

Sections 1 through 12: All
Section 15: W 1/2
Sections 16 through 21: All
Section 22: W 1/2
Section 27: NW 1/4
Section 28: N 1/2
Sections 29 and 30: All

Township 27 North, Range 8 West, NMPM

Sections 1 through 36: All

Township 28 North, Range 7 West, NMPM

Sections 7 through 36: All (Irregular Township)

Township 28 North, Range 8 West, NMPM

Sections 7 through 36: All (Irregular Township)

Township 28 North, Range 9 West, NMPM

Sections 7 through 36: All (Irregular Township)

Township 28 North, Range 10 West, NMPM

Sections 7 through 36: All (Irregular Township)

Township 29 North, Range 7 West, NMPM

Sections 1 through 36: All

Township 29 North, Range 8 West, NMPM

Sections 1 through 36: All

Township 29 North, Range 9 West, NMPM
Sections 1 through 36: All

Township 29 North, Range 10 West, NMPM
Sections 1 through 36: All

Township 29 North, Range 11 West, NMPM
Sections 1 through 36: All

Township 30 North, Range 7 West, NMPM
Sections 1 through 36: All

Township 30 North, Range 8 West, NMPM
Sections 1 through 36: All

Township 30 North, Range 9 West, NMPM
Sections 1 through 36: All

Township 30 North, Range 10 West, NMPM
Sections 1 through 36: All

Township 30 North, Range 11 West, NMPM
Sections 1 through 36: All

Township 31 North, Range 6 West, NMPM
Sections 6 and 7: All
Sections 18, 19 and 30: All

Township 31 North, Range 7 West, NMPM
Sections 1 through 36: All

Township 31 North, Range 8 West, NMPM
Sections 1 through 36: All

Township 31 North, Range 9 West, NMPM
Sections 1 through 36: All

Township 31 North, Range 10 West, NMPM
Sections 1 through 36: All

Township 31 North, Range 11 West, NMPM
Sections 1 through 36: All

Township 32 North, Range 10 West, NMPM
Sections 1 through 36: All

Township 32 North, Range 11 West, NMPM
Sections 1 through 36: All

The total area encompasses 480,076 acres, more or less, occupying 750 square miles of the north central San Juan Basin located in San Juan and Rio Arriba Counties, New Mexico. The designated area consists of 78.68% Federal, 0.33% Navajo Allotted, 12.08% State and 8.91% Fee Lands.

The applicant is Amoco Production Company, Southern Rockies Business Unit, P. O. Box 800, Denver, Colorado 80201. 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 Mesaverde 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 Mesaverde 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 has been authorized to be developed by infill drilling. This incentive no longer applies as the purpose of this tight formation area designation is to obtain IRS Section 29 tax credits.

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 are enclosed. The BLM Tight Formation Review and Technical Report is enclosed.


Included with this designation is a letter dated July 26, 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 at (505) 761-8765 or FAX (505) 761-8911.

Sincerely yours,


for Deputy State Director
Lands and Minerals

Enclosures

cc:

Amoco Production Company (J. W. Hawkins) (w/BLM Tech Rept)

Rose Exploration, Inc. (Mike Wynne) (w/BLM Tech Rept)

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

NM-921 (Steve Salzman)

NM-011 (Tom Hewitt/NGPA Liaison)

on non-Federal residential buildings are also relevant to a building energy standard for Federal residences because the comments address issues of feasibility and cost-effectiveness. These and any future comments on the non-Federal residential standards will be given serious consideration for potential applicability to the Federal residential standard development required by the Energy Policy Act of 1992.

Issued in Washington, DC August 5, 1993.

Robert L. Sam Martin,

Acting Assistant Secretary, Energy Efficiency and Renewable Energy.

[FR Doc. 93-19409 Filed 8-11-93; 8:45 am]

BILLING CODE 6240-01-P

Federal Energy Regulatory Commission

[Docket No. JD93-13529T New Mexico-48]

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

August 6, 1993.

Take notice that on July 30, 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 Mesaverde Group underlying certain lands in the Blanco Mesaverde Area of the Blanco Mesaverde Pool in San Juan and Rio Arriba Counties, New Mexico, qualifies as a tight formation under section 107(b) of the Natural Gas Policy Act of 1978. The area of application covers approximately 480,076 acres, more or less, and consists of 78.68% Federal, 0.33% Navajo Allotted, 12.08% State and 8.91% Fee Lands. The recommended area is described on the attached appendix.

The notice of determination also contains BLM's and the New Mexico Department of Energy, Minerals and Natural Resources' findings that the referenced portion of the Mesaverde Group 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.

Limwood A. Watson, Jr.,
Acting Secretary

Appendix

TOWNSHIP 27 NORTH, RANGE 7 WEST

Sections 1-12: All

Section 15: W/2

Sections 16-21: All

Section 22: W/2

Section 27: NW/4

Section 28: N/2

Sections 29-30: All

TOWNSHIP 27 NORTH, RANGE 8 WEST

Sections 1-36: All

TOWNSHIP 28 NORTH, RANGE 7 WEST

TOWNSHIP 28 NORTH, RANGE 8 WEST

TOWNSHIP 28 NORTH, RANGE 9 WEST

TOWNSHIP 28 NORTH, RANGE 10 WEST

Sections 7-36: All (Irregular Township)

TOWNSHIP 29 NORTH, RANGE 7 WEST

TOWNSHIP 29 NORTH, RANGE 8 WEST

TOWNSHIP 29 NORTH, RANGE 9 WEST

TOWNSHIP 29 NORTH, RANGE 10 WEST

TOWNSHIP 29 NORTH, RANGE 11 WEST

TOWNSHIP 30 NORTH, RANGE 7 WEST

TOWNSHIP 30 NORTH, RANGE 8 WEST

TOWNSHIP 30 NORTH, RANGE 9 WEST

TOWNSHIP 30 NORTH, RANGE 10 WEST

TOWNSHIP 30 NORTH, RANGE 11 WEST

Sections 1-36: All

TOWNSHIP 31 NORTH, RANGE 6 WEST

Sections 6-7: All

Sections 18-19: All

Section 30: All

TOWNSHIP 31 NORTH, RANGE 7 WEST

TOWNSHIP 31 NORTH, RANGE 8 WEST

TOWNSHIP 31 NORTH, RANGE 9 WEST

TOWNSHIP 31 NORTH, RANGE 10 WEST

TOWNSHIP 31 NORTH, RANGE 11 WEST

Sections 1-36: All

TOWNSHIP 32 NORTH, RANGE 10 WEST

TOWNSHIP 32 NORTH, RANGE 11 WEST

Sections 7-36: All (Irregular Township)

[FR Doc. 93-19327 Filed 8-11-93; 8:45 am]

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Final OK on 13 Sep 93.

480,076 acres.
MU Group

NM-1813-92

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