

State of New Mexico

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Santa Fe, NM 87505-5472

TF-03-011

FOR DIVISION USE ONLY:		1220 South St. Francis Dr. 3040 Pacheco St.	
APPROPRIATE FILING FEE(S) ENCLOSED? YES <input type="checkbox"/> NO <input checked="" 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)	
DATE COMPLETE APPLICATION FILED <u>March 10, 2003</u>		5A. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
DATE DETERMINATION MADE <u>April 28, 2003</u>		5. State Oil & Gas Lease No.	
WAS APPLICATION CONTESTED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		7. Unit Agreement Name	
NAME(S) OF INTERVENORS(S), IF ANY: <u>na</u>		8. Farm or Lease Name Hubbard A	
2. Name of Operator BP America Production Company		9. Well No. 1E	
3. Address of Operator P.O. Box 3092 Houston, TX 77253		10. Field and Pool, or Wildcat Blanco Mesaverde	
4. Location of Well UNIT LETTER <u>H</u> LOCATED <u>1450</u> FEET FROM THE <u>North</u> LINE AND <u>1190</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>30</u> TWS. <u>32N</u> RGE. <u>11W</u> NMMP		12. County San Juan	
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. 30-045-25803

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 12, 2003

FOR DIVISION USE ONLY

- ☒ Approved
☐ Disapproved

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

EXAMINER

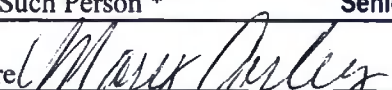
A. THE NGPA WELL CATEGORY DETERMINATION IS BEING SOUGHT FOR A WELL PRODUCING:

- 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.* **Hubbard A # 1E**
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.) **30-045-25803**
9. Measured Depth of the Completed Interval (in feet)
TOP **4820'** BASE **5749'**

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  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 Hubbard A well # 1E, API No. 30-045-25803 is natural gas produced from a FERC designated tight formation, assigned State No. NM - 48 through:

- ☐ 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

Mary Corley
Senior Regulatory Analyst

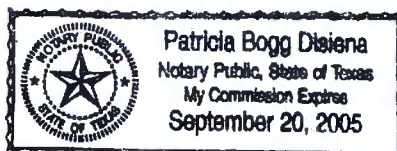
Subscribed in my presence and duly sworn to before me, this 12 day of February, 2003.

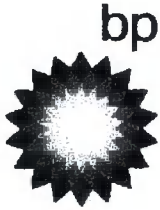
Patricia Bogg Diekena

Notary Public

My Commission Expires:

BLM Affidavit





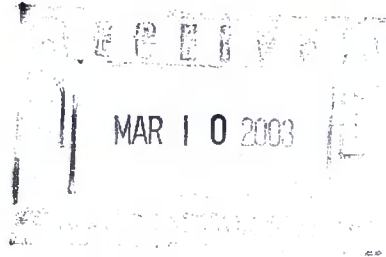
San Juan Performance Unit

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**

**Hubbard A Well No. 1E – Mesaverde
San Juan County, New Mexico**

API No. 30-045-25803

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

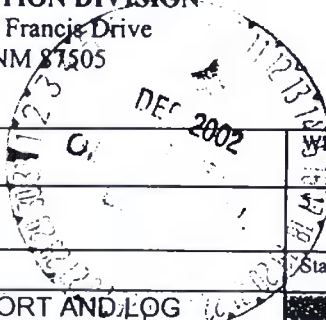
Cc: Working Interest Owners

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-105
Revised March 25, 1999

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505



WELL API NO. 30-045-25803			
Indicate Type of Lease STATE FEE <input checked="" type="checkbox"/>			
State Oil & Gas Lease No.			
WELL COMPLETION OR RECOMPLETION REPORT AND LOG			
1a. Type of Well: OIL WELL GAS WELL <input checked="" type="checkbox"/> DRY OTHER		7. Lease Name or Unit Agreement Name Hubbard A	
b. Type of Completion: NEW WELL WORK OVER PLUG BACK DIFF. RESVR <input checked="" type="checkbox"/> OTHER		8. Well No. 1E	
2. Name of Operator BP America Production Company		9. Pool name or Wildcat Blanco Mesaverde	
3. Address of Operator P.O. Box 3092 Houston, TX 77253 Attn: Mary Corley			
4. Well Location Unit Letter H : 1450 Feet From The North Line and 1190 Feet From The East Line Section 30 Township 34N-32E Range 11W NMPM San Juan County			
10. Date Spudded 03/26/1984	11. Date T.D. Reached 04/05/1984	12. Date Compl. (Ready to Prod.) 11/27/2002	13. Elevations (DF& RKB, RT, GR, etc.) 6538' GR
14. Elev. Casinghead			
15. Total Depth 7880' KB	16. Plug Back T.D. 7839' KB'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By XX
19. Producing Interval(s), of this completion - Top, Bottom, Name 4820' - 5748' Blanco Mesaverde			20. Was Directional Survey Made NO
21. Type Electric and Other Logs Run GR/CBL			22. Was Well Cored NO
23. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
9 5/8"	36#	320' KB	12 1/4"
7"	23#	5380' KB	8 3/4"
CEMENTING RECORD			
225 SXS			
725 SXS			
AMOUNT PULLED			
24. LINER RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT
4 1/2"	5201' KB	7880' KB	275 SXS
SCREEN			
25. TUBING RECORD			
SIZE	DEPTH SET	PACKER SET	
2 3/8"	7699'		
26. Perforation record (interval, size, and number) PLEASE SEE ATTACHED SUBSEQUENT REPORT FOR PERFORATION DETAILS			
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
4820' - 5278'		80939# 16/40 Brady Sand, 70% Foam, N2	
5339' - 5749'		78935# 16/40 Brady Sand, 70% Foam, N2	
28. PRODUCTION			
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing	
Well Status (Prod. or Shut-in) Producing			
Date of Test 11/26/2002	Hours Tested 12	Choke Size 3/4"	Prod'n For Test Period
Oil - Bbl Trace	Gas - MCF 870	Water - Bbl. Trace	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure 60#	Calculated 24-Hour Rate	Oil Gravity - API - (Corr.)
29. Disposition of Gas (Sold, used for fuel, vented, etc.)			
Test Witnessed By			
30. List Attachments			
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief			
Signature <i>Mary Corley</i>		Printed Name Mary Corley	
Title Sr. Regulatory Analyst		Date 12/02/2002	

District I
PO Box 1980, Hobbs, NM 88241-
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM
District IV
2040 South Pacheco, Santa Fe, NM

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Form C-10
Revised October 18, 199
Instructions on bac
Submit to Appropriate District Office
5 Copie

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address BP America Production Company P.O. Box 3092 Attention: Mary Corley Houston, TX 77253		² OGRID Number 000778
		³ Reason for Filing Code Recomplete
⁴ API Number 30-045-25803	⁵ Pool Name Blanco Mesaverde	⁶ Pool Code 72319
⁷ Property Code 00691	⁸ Property Name Hubbard A	⁹ Well Number 1E

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
H	30	32N	11W		1450'	North	1190'	East	San Juan

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code P (Fee)	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
151618	EL PASO FIELD SERVICES BOX 4490 FARMINGTON, NM 87499		G	
9018	GIANT REFINING CO P.O. BOX 12999 SCOTTSDALE, AZ 85267		O	



IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, DC, MC
03/26/1984	11/27/2002	7880'	7839'	4820' - 5748'	DHC-466AZ
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sack Cement		
12 1/2"	9 5/8" 36#	320'	225 200 SXS CMT		
8 3/4"	7" 23#	5380'	725 SXS CMT		
6 1/4" (Liner)	4 1/2" 11.6#	7880'	275 SXS CMT		
(Tubing)	2 3/8"	7699'			

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
		11/26/2002	12 hrs		60#
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
3/4"	Trace	Trace	870 MCF		F

⁴⁷ I hereby certify that the rules 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.

Signature:

Printed name:

Title:

Date: 12/02/2002

Phone: 281-366-4491

Approved by:

Title:

Approval Date:

DEC 14 2002

OIL CONSERVATION DIVISION

SUPERVISOR DISTRICT #3

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

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

District I
1625 N. French Dr., Hobbs, NM 87240

District II
817 South First, Artesia, NM 87210

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

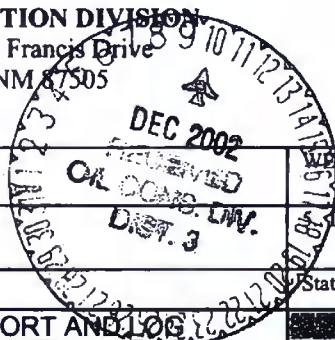
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-1
Revised March 25, 19

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505



WELL API NO.

30-045-25803

Indicate Type of Lease

STATE

FEE



State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL GAS WELL <input checked="" type="checkbox"/> DRY OTHER _____	7. Lease Name or Unit Agreement Name Hubbard A
b. Type of Completion: NEW WELL WORK OVER PLUG BACK DIFF. RESVR <input checked="" type="checkbox"/> OTHER _____	8. Well No. 1E
2. Name of Operator BP America Production Company	9. Pool name or Wildcat Blanco Mesaverde
3. Address of Operator P.O. Box 3092 Houston, TX 77253 Attn: Mary Corley	

4. Well Location Unit Letter H : 1450 Feet From The North Line and 1190 Feet From The East Line Section 30 Township 31N 32 Range 11W NMPM San Juan County	10. Date Spudded 03/26/1984	11. Date T.D. Reached 04/05/1984	12. Date Compl. (Ready to Prod.) 11/27/2002	13. Elevations (DF& RKB, RT, GR, etc.) 6538' GR	14. Elev. Casinghead
--	---------------------------------------	--	---	---	----------------------

15. Total Depth 7880' KB	16. Plug Back T.D. 7839' KB'	17. If Multiple Compl. How Many Zones? XX	18. Intervals Drilled By XX	Rotary Tools	Cable Tools
------------------------------------	--	---	---------------------------------------	--------------	-------------

19. Producing Interval(s), of this completion - Top, Bottom, Name 4820' - 5748' Blanco Mesaverde	20. Was Directional Survey Made NO
--	--

21. Type Electric and Other Logs Run GR/CBL	22. Was Well Cored NO
---	---------------------------------

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	320' KB	12 1/4"	225 SXS	
7"	23#	5380' KB	8 3/4"	725 SXS	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4 1/2"	5201' KB	7880' KB	275 SXS		2 3/8"	7699'	

26. Perforation record (interval, size, and number) PLEASE SEE ATTACHED SUBSEQUENT REPORT FOR PERFORATION DETAILS	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 4820' - 5278' 80939# 16/40 Brady Sand, 70% Foam, N2 5339' - 5749' 78935# 16/40 Brady Sand, 70% Foam, N2
---	--

28. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing			Well Status (Prod. or Shut-in) Producing		
Date of Test 11/26/2002	Hours Tested 12	Choke Size 3/4"	Prod'n For Test Period	Oil - Bbl Trace	Gas - MCF 870	Water - Bbl. Trace	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure 60#	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
--	-------------------

30. List Attachments

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief			
Signature <i>Mary Corley</i>	Printed Name Mary Corley	Title Sr. Regulatory Analyst	Date 12/02/2002

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

Southeastern New Mexico

Anhy	T. Canyon
Salt	T. Strawn
Salt	T. Atoka
Yates	T. Miss
7 Rivers	T. Devonian
Queen	T. Silurian
Grayburg	T. Montoya
San Andres	T. Simpson
Glorieta	T. McKee
Paddock	T. Ellenburger
Blinebry	T. Gr. Wash
Tubb	T. Delaware Sand
Drinkard	T. Bone Springs
Abo	T.
Wolfcamp	T.
Penn	T.
Cisco (Bough C)	T.

Northwestern New Mexico

T. Ojo Alamo	1360'	T. Penn. "B"	
T. Kirtland-Fruitland	1420'	T. Penn. "C"	
T. Pictured Cliffs	3173'	T. Penn. "D"	
T. Cliff House	4695'	T. Leadville	
T. Menefee	4870"	T. Madison	
T. Point Lookout	5444'	T. Elbert	
T. Mancos	5750'	T. McCracken	
T. Gallup	6796'	T. Ignacio Otzte	
Base Greenhorn	7532'	T. Granite	
T. Dakota	7648'	T.	
T. Morrison		T.	
T. Todilto		T.	
T. Entrada		T.	
T. Wingate		T.	
T. Chinle		T.	
T. Permian		T.	
T. Penn "A"		T.	

OIL OR GAS SANDS
OR ZONES

1. 1, from.....to.....
2. 2, from.....to.....

No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

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

1. 1, from to feet.
 2. 2, from to feet.
 3. 3, from to feet.

[illegible]

HUBBARD A 1E
RECOMPLETION & DOWNHOLE COMMINGLING SUBSEQUENT REPORT
12/02/2002

11/04/2002 MIRUSU @ 07:00 hrs. NDWH & NU BOP's. Unseat TBG hanger. SDFN.

11/05/2002 TIH & TOH W/TBG. RU, TIH & set a CIBP @ 5850'. RU & run GR & CBL logs. Load hole w/2% KcL water. Tried to pressure tested CSG - would not hold. SDFN

11/06/2002 TIH & set PKR & test CSG . Found CSG holes from 3748' to 3841'. PU & set PKR @ 3600'. SDFN.

11/07/2002 RU & pumped 100 SXS CLS G NEAT CMT w/2% CaCL. Had SQZ pressure of 612#. SDFN.

11/08/2002 Unseat PKR & TOH. TIH & tagged CMT @ 3689'. DO CMT & circ hole clean. Pressure test CSG to 500#. Held Ok. RU & Perf Point Lookout & Lower Menefee: .400 inch diameter

1 JSPF 120° phasing (15 shots/ 15 holes):

5339', 5345', 5358', 5390', 5400', 5456', 5462', 5466', 5470', 5477', 5510', 5512', 5518', 5529', 5542'

2 JSPF, 120° phasing (11 shots/ 22 holes):

5555', 5584', 5593', 5618', 5653', 5670', 5688', 5705', 5712', 5727', 5748'

11/13/2002 RU & Frac w/78,935# of 16/30 Brady Sand & 70% Foam & N2. RU & Flow back well thru ¼" overnight.

11/14/2002 Flow back well thru ½" choke. @ 14.00 hrs upsized choke to ½" & flowback for 1 hrs. Upsized to ¾" choke & flowed back over night.

11/18/2002 RU & TIH w/CIBP & set @ 5290'. RU & Perf Lower Menefee, Cliffhouse, Lewis Shale : .400 inch diameter

2 JSPF, 120° phasing (3 shots/ 62 holes):

4830', 4840', 4844'

1 JSPF, 120° phasing (13 shots/ 26 holes):

4926', 4930', 4944', 4956', 4963', 4972', 5006', 5014', 5022', 5033', 5053', 5059', 5070'

2 JSPF, 120° phasing (11 shots/ 22 holes):

5141', 5144', 5186', 5190', 5206', 5215', 5220', 5225', 5262', 5276', 5278'

11/19/2002 RU & Frac w/80,939# of 16/30 Brady Sand & 70% Foam & N2. RU & Flow back well thru ¼" choke all night.

11/20/2002 Flowback well thru ¼" choke. @ 08:00 hrs upsized to ½" choke. @ 13:00 hrs Upsized to ¾" choke & flowback overnight.

11/22/2002 TIH & circ hole clean to top of CIBP set @ 5290'. DO CIBP. TIH & tagged fill @ 5600'. C/O to 5800'. SDFN.

11/23/2002 TIH & tagged fill @ 5840'. Circ hole clean to top of CIBP set @ 5850'. DO CIBP. TIH & tag fill @ 7810'. Circ clean to PBTD @ 7839'.

11/26/2002 TIH & tag fill @ 7820'. Circ clean to PBTD'. PU above perms & flow test well 12 hrs. thru 3/4" choke. 870 MCF Gas, Trace WTR, Trace oil. TIH W/ 2 3/8" production TBG & land @ 7699'. ND BOP's & NUWH. Secure Well. SDFN.

11/27/2002 Pull TBG plug. RDSU. RDMOSU. Rig Release @ 12:00 hrs.

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-045-23435

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

Hubbard A

Well No.

1E

9. Pool name or Wildcat

Basin Dakota & Blanco Mesaverde

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

Amoco Production Company

Attn: Mary Corley

3. Address of Operator

P.O. Box 3092 Houston, TX 77253

4. Well Location

Unit Letter H 1450 feet from the North line and 1190 feet from the East line

Section 30

Township 32N

Range 11W

NMPM

San Juan

County

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

6538'

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 ☐ MULTIPLE COMPLETION ☐

OTHER: Complete Mesaverde & Downhole Commingle ☒

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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Amoco Production Company request permission to complete the subject well into the Blanco Mesaverde and commingle production downhole with the existing Basin Dakota Pool as per the attached procedure.

The Basin Dakota (71599) & the Blanco Mesaverde (72319) Pools are Pre-Approved for Downhole Commingling per NMOC Order R - 11363. The working, overriding, and royalty interest owners in the proposed commingled pools are not identical, and are, therefore being notified of this application via certified mail (return receipt).

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Dakota. That production shall serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Mesaverde. Attached is the future production decline estimates for the Dakota.

Commingling Production Downhole in the subject well from the proposed pools will not reduce the value of the total remaining production.

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

SIGNATURE _____ TITLE Sr. Regulatory Analyst DATE 06/28/2001

Type or print name Mary Corley

Telephone No. 281-366-4491

(This space for State use)

APPROVED BY Original Signed by STEVEN N. HAYDEN TITLE _____

Conditions of approval, if any:

DEPUTY OIL & GAS INSPECTOR, DIST. 3

DATE JUL 17 2001

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811-South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102

Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-045-23435		² Pool Code 72319		³ Pool Name Blanco Mesaverde	
⁴ Property Code 000691		⁵ Property Name Hubbard A			⁶ Well Number 1E
⁷ OGRID No. 000778		⁸ Operator Name Amoco Production Company			⁹ Elevation 6538'

¹⁰ Surface Location

UL or lot no. Unit H	Section 30	Township 32N	Range 11W	Lot Idn	Feet from the 1450'	North/South line North	Feet from the 1190'	East/West line East	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div data-bbox="219 1166 555 1500"> </div>	<div data-bbox="695 1112 998 1521"> </div>		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
	Signature		Signature
	Printed Name Mary Corley		Printed Name Sr. Regulatory Analyst
	Date 06/28/2001		Date
<div data-bbox="1101 1527 1575 1698"> ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. </div>		On File	
Date of Survey		Signature and Seal of Professional Surveyor:	
Fred B Kerr Jr 3950		Fred B Kerr Jr 3950	
Certificate Number		Certificate Number	

Hubbard A #1E Recompletion Procedure

Procedure:

1. Check anchors. MIRU.
2. Check and record tubing, casing, and bradenhead pressures.
3. Blow down well. If necessary, kill with 2% KCL water.
4. Nipple down WH. NU BOPs.
5. Tally OH with 2-3/8" production tubing set at 7733'.
6. TIH with bit and scraper for 7" casing to 5200' and a 4-1/2" casing scraper to 5850'.
7. TIH with tubing-set CIBP. Set CIBP at 5850'. Load hole with 2% KCL water.
8. Pressure test casing to 1500 PSI.
9. RU WL. Run CBL over MV interval (4000' - 5850') to ensure zonal isolation across the MV.
10. Run GR/TDT log over MV interval (4000' - 5850').
Note: Perforations and number of frac stages will be determined after logging results are obtained.
11. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Menefee/Point Lookout formations.
12. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.
13. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
14. Immediately after frac job, RU WL unit and lubricator. RIH and set CIBP between Point Lookout and Menefee at a depth to be determined after logging.
15. RIH with perforating guns and perforate Menefee formation.
16. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.
17. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
18. Immediately after frac job, RU WL unit and lubricator. RIH and set CIBP between Menefee and Cliffhouse at a depth to be determined after logging.
19. RIH with perforating guns and perforate Cliffhouse/Menefee formation.
20. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.
21. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
22. Flowback frac immediately.
23. TIH with tubing and bit. Cleanout fill and drill bridge plugs. Cleanout fill to PBTD at 7839'. Blow well dry at PBTD.
24. Land 2-3/8" production tubing at 7650'.
25. ND BOPs. NU WH. Return well to production and downhole commingle MV and DK production.

Hubbard A #1E

Sec 30, T32N R11W

API: 30-045-25803

GL: 6538'

History:

Lost 550 bbls mud in CH/MF
6-1/4" OH drilled with air
without problems
Completed in 4/84

Lewis/Chacra ?
4695'
Cliffhouse
4870'
Menefee
5444'
Point Lookout
5750'

Dakota Completion

7649' - 7654' 1 spf
7674' - 7678' 1 spf
7728' - 7754' 1 spf
7760' - 7766' 1 spf
frac'd w/ 144,000 #s sand

est. TOC @ surface (circ)

9-5/8" 36#, K55 ST&C @ 320'
225 sxs cmt (circulated)

Est. TOC @ surf (circ)

DV tool @ 1534'
2nd stage: 275 sxs cmt

est. TOC unknown

4-1/2" liner hanger @ 5201'

7" 23#, K55 ST&C @ 5380'
1st stage: 450 sxs cmt

est. TOC at liner top (reversed 5 bbls)

Tubing: 2-3/8" 4.7#, J55 @ 7733'

4-1/2" liner, 10.5#, K55 ST&C 38 jts (5201' - 7004')
4-1/2" liner, 11.6#, K55 ST&C 22 jts (7004' - 7880')

275 sxs cmt

PBTD: 7839

Notes:

- 1) Good circulation on 4-1/2" cmt job
- 2) Lost returns during 1st stage of 7" cement job

updated: 5/30/01 jad

Hubbard A # 1E

7/11/2001

Future Production Decline Estimate Dakota (Monthly Factor .289%)

Month	Gas Volume
Jan-2000	46
Feb-2000	44
Mar-2000	43
Apr-2000	42
May-2000	41
Jun-2000	39
Jul-2000	39
Aug-2000	36
Sep-2000	31
Oct-2000	29
Nov-2000	28
Dec-2000	20
Jan-2001	30
Feb-2001	31
Mar-2001	37
Apr-2001	44
May-2001	45
Jun-2001	45
Jul-2001	45
Aug-2001	45
Sep-2001	45
Oct-2001	44
Nov-2001	44
Dec-2001	44
Jan-2002	44
Feb-2002	44
Mar-2002	44
Apr-2002	44
May-2002	44
Jun-2002	43
Jul-2002	43
Aug-2002	43
Sep-2002	43
Oct-2002	43
Nov-2002	43
Dec-2002	43

$\ln(Q_f/Q_i) = -dt$
 $Q_i = 36 \text{ MCFD (08/2000)}$
 $Q_f = 30 \text{ MCFD (01/2001)}$
 $t = 5 \text{ months (.41666 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

Corrected Volumes
 $30/36 = 0.83333$
 $.83 * .41666 = .34722$
 0.028935

Month	Gas Volume
Jan-2003	43
Feb-2003	43
Mar-2003	42
Apr-2003	42
May-2003	42
Jun-2003	42
Jul-2003	42
Aug-2003	42
Sep-2003	42
Oct-2003	42
Nov-2003	42
Dec-2003	41
Jan-2004	41
Feb-2004	41
Mar-2004	41
Apr-2004	41
May-2004	41
Jun-2004	41
Jul-2004	41
Aug-2004	41
Sep-2004	41
Oct-2004	40
Nov-2004	40
Dec-2004	40
Jan-2005	40
Feb-2005	40
Mar-2005	40
Apr-2005	40
May-2005	40
Jun-2005	40
Jul-2005	39
Aug-2005	39
Sep-2005	39
Oct-2005	39
Nov-2005	39
Dec-2005	39

Month	Gas Volume
Jan-2006	39
Feb-2006	39
Mar-2006	39
Apr-2006	38
May-2006	38
Jun-2006	38
Jul-2006	38
Aug-2006	38
Sep-2006	38
Oct-2006	38
Nov-2006	37
Dec-2006	37
Jan-2007	37
Feb-2007	37
Mar-2007	37
Apr-2007	37
May-2007	37
Jun-2007	37
Jul-2007	36
Aug-2007	36
Sep-2007	36
Oct-2007	36
Nov-2007	36
Dec-2007	36
Jan-2008	36
Feb-2008	36
Mar-2008	35
Apr-2008	35
May-2008	35
Jun-2008	35
Jul-2008	35
Aug-2008	35
Sep-2008	35
Oct-2008	35
Nov-2008	34
Dec-2008	34

Hubbard A # 1E

7/11/2001

Future Production Decline Estimate Dakota (Monthly Factor .289%)

Month	Gas Volume
Jan-2009	34
Feb-2009	34
Mar-2009	34
Apr-2009	34
May-2009	34
Jun-2009	34
Jul-2009	34
Aug-2009	33
Sep-2009	33
Oct-2009	33
Nov-2009	33
Dec-2009	33
Jan-2010	33
Feb-2010	33
Mar-2010	33
Apr-2010	33
May-2010	32
Jun-2010	32
Jul-2010	32
Aug-2010	32
Sep-2010	32
Oct-2010	32
Nov-2010	32
Dec-2010	32
Jan-2011	32
Feb-2011	31
Mar-2011	31
Apr-2011	31
May-2011	31
Jun-2011	31
Jul-2011	31
Aug-2011	31
Sep-2011	31
Oct-2011	31
Nov-2011	30
Dec-2011	30

Month	Gas Volume
Jan-2012	30
Feb-2012	30
Mar-2012	30
Apr-2012	30
May-2012	30
Jun-2012	30
Jul-2012	30
Aug-2012	30
Sep-2012	30
Oct-2012	29
Nov-2012	29
Dec-2012	29
Jan-2013	29
Feb-2013	29
Mar-2013	29
Apr-2013	29
May-2013	29
Jun-2013	29
Jul-2013	29
Aug-2013	29
Sep-2013	28
Oct-2013	28
Nov-2013	28
Dec-2013	28
Jan-2014	28
Feb-2014	28
Mar-2014	28
Apr-2014	28
May-2014	28
Jun-2014	28
Jul-2014	28
Aug-2014	28
Sep-2014	27
Oct-2014	27
Nov-2014	27
Dec-2014	27

Month	Gas Volume
Jan-2015	27
Feb-2015	27
Mar-2015	27
Apr-2015	27
May-2015	27
Jun-2015	27
Jul-2015	27
Aug-2015	27
Sep-2015	26
Oct-2015	26
Nov-2015	26
Dec-2015	26
Jan-2016	26
Feb-2016	26
Mar-2016	26
Apr-2016	26
May-2016	26
Jun-2016	26
Jul-2016	26
Aug-2016	26
Sep-2016	26
Oct-2016	25
Nov-2016	25
Dec-2016	25
Jan-2017	25
Feb-2017	25
Mar-2017	25
Apr-2017	25
May-2017	25
Jun-2017	25
Jul-2017	25
Aug-2017	25
Sep-2017	25
Oct-2017	25
Nov-2017	25
Dec-2017	24

Month	Gas Volume
Jan-2018	24
Feb-2018	24
Mar-2018	24
Apr-2018	24
May-2018	24
Jun-2018	24
Jul-2018	24
Aug-2018	23
Sep-2018	23
Oct-2018	23
Nov-2018	23
Dec-2018	23
Jan-2019	23
Feb-2019	23
Mar-2019	23
Apr-2019	23
May-2019	22
Jun-2019	22
Jul-2019	22
Aug-2019	22
Sep-2019	22
Oct-2019	22
Nov-2019	22
Dec-2019	22
Jan-2020	22
Feb-2020	21
Mar-2020	21
Apr-2020	21
May-2020	21
Jun-2020	21
Jul-2020	21
Aug-2020	21
Sep-2020	21
Oct-2020	21
Nov-2020	21
Dec-2020	20

Hubbard A # 1E

7/11/2001

Future Production Decline Estimate Dakota (Monthly Factor .289%)

Month	Gas Volume
Jan-2021	20
Feb-2021	20
Mar-2021	20
Apr-2021	20
May-2021	20
Jun-2021	20
Jul-2021	20
Aug-2021	20
Sep-2021	20
Oct-2021	19
Nov-2021	19
Dec-2021	19
Jan-2022	19
Feb-2022	19
Mar-2022	19
Apr-2022	19
May-2022	19
Jun-2022	19
Jul-2022	19
Aug-2022	18
Sep-2022	18
Oct-2022	18
Nov-2022	18
Dec-2022	18
Jan-2023	18
Feb-2023	18
Mar-2023	18
Apr-2023	18
May-2023	18
Jun-2023	18
Jul-2023	17
Aug-2023	17
Sep-2023	17
Oct-2023	17
Nov-2023	17
Dec-2023	17

Month	Gas Volume
Jan-2024	17
Feb-2024	17
Mar-2024	17
Apr-2024	17
May-2024	17
Jun-2024	17
Jul-2024	16
Aug-2024	16
Sep-2024	16
Oct-2024	16
Nov-2024	16
Dec-2024	16
Jan-2025	16
Feb-2025	16
Mar-2025	16
Apr-2025	16
May-2025	16
Jun-2025	16
Jul-2025	15
Aug-2025	15
Sep-2025	15
Oct-2025	15
Nov-2025	15
Dec-2025	15
Jan-2026	15
Feb-2026	15
Mar-2026	15
Apr-2026	15
May-2026	15
Jun-2026	15
Jul-2026	15
Aug-2026	15
Sep-2026	14
Oct-2026	14
Nov-2026	14
Dec-2026	14

Month	Gas Volume
Jan-2027	14
Feb-2027	14
Mar-2027	14
Apr-2027	14
May-2027	14
Jun-2027	14
Jul-2027	14
Aug-2027	14
Sep-2027	14
Oct-2027	14
Nov-2027	13
Dec-2027	13
Jan-2028	13
Feb-2028	13
Mar-2028	13
Apr-2028	13
May-2028	13
Jun-2028	13
Jul-2028	13
Aug-2028	13
Sep-2028	13
Oct-2028	13
Nov-2028	13
Dec-2028	13
Jan-2029	13
Feb-2029	12
Mar-2029	12
Apr-2029	12
May-2029	12
Jun-2029	12
Jul-2029	12
Aug-2029	12
Sep-2029	12
Oct-2029	12
Nov-2029	12
Dec-2029	12

Month	Gas Volume
Jan-2030	12
Feb-2030	12
Mar-2030	12
Apr-2030	12
May-2030	12
Jun-2030	11
Jul-2030	11
Aug-2030	11
Sep-2030	11
Oct-2030	11
Nov-2030	11
Dec-2030	11
Jan-2031	11
Feb-2031	11
Mar-2031	11
Apr-2031	11
May-2031	11
Jun-2031	11
Jul-2031	11
Aug-2031	11
Sep-2031	11
Oct-2031	11
Nov-2031	11
Dec-2031	10
Jan-2032	10
Feb-2032	10
Mar-2032	10
Apr-2032	10
May-2032	10
Jun-2032	10
Jul-2032	10
Aug-2032	10
Sep-2032	10
Oct-2032	10
Nov-2032	10
Dec-2032	10

OIL CONSERVATION DIVISION

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

Operator AMOCO PRODUCTION COMPANY	Well APN No. 3004525803
Address P.O. BOX 800, DENVER, COLORADO 80201	
Reason(s) for Filing (Check proper box) Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input checked="" type="checkbox"/>
Change in Operator <input type="checkbox"/>	

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name HUBBARD A	Well No. 1E	Pool Name, including Formation BASIN (DAKOTA)	Kind of Lease FEE	Lease No. 820780400
Location				
Unit Letter H	1450	Feet From The FNL Line and 1190	Feet From The FEL Line	
Section 30	Township 32N	Range 11W	NMPM	County SAN JUAN

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/> MERIDIAN OIL, INC.	Address (Give address to which approved copy of this form is to be sent) 3535 EAST 30TH STREET, FARMINGTON, NM 87401
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/> EL PASO NATURAL GAS COMPANY	Address (Give address to which approved copy of this form is to be sent) 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								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

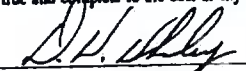
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL


Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pump, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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


Signature
Doug W. Whaley, Staff Admin. Supervisor
Printed Name
February 8, 1991
Date
303-830-4280
Telephone No.

OIL CONSERVATION DIVISION

Date Approved **FEB 25 1991**
By 
SUPERVISOR DISTRICT #3
Title _____

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

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Amoco Production Company		Well API No. 3004525803
Address 1670 Broadway, 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: <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>	
Recompletion <input type="checkbox"/>	<input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	
Change in Operator <input checked="" type="checkbox"/>		
If change of operator give name and address of previous operator Tenneco Oil E & P, 6162 S. Willow, Englewood, Colorado 80155		

II. DESCRIPTION OF WELL AND LEASE

Lease Name HUBBARD A	Well No. 1E	Pool Name, Including Formation BASIN (DAKOTA)	Lease No. 820780400
Location Unit Letter H : 1450 Feet From The FNL Line and 1190 Feet From The FEL Line Section 30 Township 32N Range 1W , NMPM, 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) CS					
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	Sec.	Twsp.	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	Xif Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DP, RKB, RF, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

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

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (gust, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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

J. L. Hampton
Signature
J. L. Hampton Sr. Staff Admin. Suprv.
Printed Name
January 16, 1989 303-830-5025
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved **MAY 08 1989**

By *[Signature]*
SUPERVISION DISTRICT # 8

Title

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

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

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

NOTICE OF GAS CONNECTION

DATE July 26, 1984

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

GAS FROM <u>Tenneco Oil Company</u>		<u>Hubbard A #1-E</u>	
Operator		Well Name	
<u>94-980-01</u>	<u>27337-51</u>	<u>H</u>	<u>30-32-11</u>
Meter Code	Site Code	Well Unit	S-T-R
<u>Basin Dakota</u>		<u>El Paso Natural Gas Company</u>	
Pool		Name of Purchaser	
WAS MADE ON <u>July 3, 1984</u>		FIRST DELIVERY <u>July 5, 1984</u>	
Date		Date	
AOF <u>1,828</u>			
CHOKE <u>1,659</u>			

P
045
CST

El Paso Natural Gas Company
Purchaser

Gerry Stoney
Representative

Title

cc: Operator Houston & Englewood
Oil Conservation Commission - 2
~~PRODUCTION~~ - El Paso Production Control
Contract Administration
File

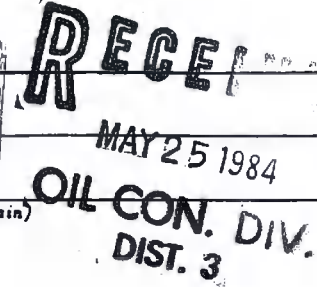
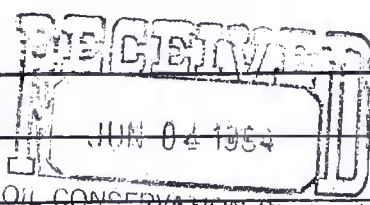
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SANTA FE

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TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-111
Effective 1-1-65



I. Operator
Tenneco Oil Company
Address
P.O. Box 3249, Englewood, CO 80155
Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
SANTA FE

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Hubbard A	Well No. 1E	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Unit Letter H ; 1450 Feet From The North Line and 1190 Feet From The East Line of Section 30 Township 32N Range 11W , NMPM, 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"/> Conoco, Inc. Surface Transportation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 460, Hobbs, NM 88240					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> 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 H	Sec. 30	Twp. 32N	Rge. 11W	Is gas actually connected? No	When ASAP

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 03/26/84	Date Compl. Ready to Prod. 04/17/84	Total Depth 7880' KB	P.B.T.D. 7839' KB					
Elevations (DF, RKB, RT, GR, etc.) 6538' GR	Name of Producing Formation Dakota	Top Oil/Gas Pay 7649' KB	Tubing Depth 7733' KB					
Perforations 7649-54KB, 7674-78KB, 7728-54KB, 7760-66KB, 7780-84KB 1 JSPF 45' 45 holes			Depth Casing Shoe 7839' KB					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	9-5/8" csg	320' KB	225sx, 243cf					
8-3/4"	7" csg	5380' KB	775sx, 1294 cf					
6-1/4"	4-1/2" liner csg	5201'-7880 KB	275sx, 440 cf					
---	2-3/8" tbq	7733' KB	---					

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 1659	Length of Test 3hrs.	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (shut-in) 1850	Casing Pressure (shut-in) 1940	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

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

Senior Regulatory Analyst

5/16/84

(Signature)

(Title)

(Date)

OIL CONSERVATION COMMISSION

APPROVED MAY 25 1984
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 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 multiple completed wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-103
Revised 10-1-7

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LAND OFFICE	
OPERATOR	

3a. 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.

1. OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Tenneco Oil Company	8. Farm or Lease Name Hubbard A
3. Address of Operator P.O. Box 3249, Englewood, CO 80155	9. Well No. 1E
4. Location of Well UNIT LETTER <u>H</u> <u>1450</u> FEET FROM THE <u>North</u> LINE AND <u>1190</u> FEET FROM THE <u>East</u> LINE, SECTION <u>30</u> TOWNSHIP <u>32N</u> RANGE <u>11W</u> NMPM.	10. Field and Pool, or Whdcat Basin Dakota
15. Elevation (Show whether DF, RT, GR, etc.) 6538' GR	12. County San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
		OTHER <u>1st Delivery Notice</u>	

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

The referenced well was placed on production July 5, 1984. Nature of production is natural gas

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DIST. 3

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

SIGNED Scott McKinnis TITLE Senior Regulatory Analyst DATE 7/6/84

Original Signed by FRANK T. CHAVEZ

APPROVED BY _____ TITLE SUPERVISOR DISTRICT # 3 DATE JUL 11 1984

CONDITIONS OF APPROVAL, IF ANY:

*Flocele. Tail w/50 SX 59ct B+1/2#/SX Flocele

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

Form C-105
Revised 10-1-78

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☐

5. State Oil & Gas Lease No.

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

1b. TYPE OF COMPLETION

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

2. Name of Operator

Tenneco Oil Company

3. Address of Operator

P.O. Box 3249, Englewood, CO 80155

4. Location of Well

UNIT LETTER H LOCATED 1450 FEET FROM THE North LINE AND 1190 FEET FROM

THE East LINE OF SEC. 30 TWP. 32N RGE. 11W NMPM

15. Date Spudded

3/26/84

16. Date T.D. Reached

4/5/84

17. Date Compl. (Ready to Prod.)

4/17/84

18. Elevations (DF, RKB, RT, GR, etc.)

6550' KB

19. Elev. Casinghead

6538' GR

20. Total Depth

7880' KB

21. Plug Back T.D.

7839' KB

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

Cable Tools

0-TD

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

7649 - 7784' KB Dakota

25. Was Directional Sur Made

No

26. Type Electric and Other Logs Run

GR-DIL, GR-CDL-Caliper

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 PULLE
9-5/8"	36#	320' KB	12-1/4"	225SX, 243cf CL-B+2%CaCl ₂ +1/2#/SX Flocele	
7"	23#	5380' KB	8-3/4"	1st stage: 300sx 552cf 65-35-6+1/2ft 3/sxP +1/2#/sx Flocele. Tail w/150/sx 177cf B+1/2sx Flocele. 2nd stage 275 sx 506cf Lite+1/2ft	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	5201' KB	7880' KB	175 sx 322cf	

lite+1/2ft 3/sx Perlite. Tail w/100sx/118cf Class B Neat

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	7733' KB	---

31. Perforation Record (Interval, size and number)

7649-54' KB 7780-84' KB
7674-78' KB
7728-54' KB
7760-66' KB 1 JSPF 45' 45 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7649-7784' KB	Acidized w/900 gal 15% WGTD H Frac w/144,000 Gal 40# X-L ge 204,000# 20/40 sd.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
4/17/84	Flowing	Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
5/10/84	3 hrs.	3/4"			207		

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
112	668			1659		

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

To be sold

Test Witnessed By

35. List of Attachments

Log to be forwarded by Gearhart

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.

[Signature]

Senior Regulatory Analyst

5/16/84

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 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 1360'	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland 1420'	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs 3173'	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House 4695'	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee 4870'	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout 5444'	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos 5750'	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup 6796'	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn 7532'	T. Granite _____
T. Paddock _____	T. Ellenburger _____	7648'	T. _____
T. Hinebry _____	T. Gr. Wash _____	T. Dakota _____	T. _____
T. Tubb _____	T. Granite _____	T. Morrison _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Wolfcamp _____	T. _____	T. Wingate _____	T. _____
T. Penn. _____	T. _____	T. Chinle _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Permian _____	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
Surface	1360'	1360'	San Jose				
1360'	1420'	60'	Ojo-Alamo				
1420'	1920'	500'	Kirkland				
1920'	3173'	1253'	Fruitland				
3173'	3265'	92'	Pictured Cliffs				
3265'	3950'	685'	Lewis				
3950'	4695'	745'	Chacra				
4695'	4870'	175'	Cliff House				
4870'	5444'	574'	Menefee				
5444'	5750'	306'	Point Lookout				
5750'	6796'	1046'	Mancos				
6796'	7532'	736'	Gallup				
7532'	7583'	51'	Greenhorn(Geo. Marked)				
7583'	7648'	65'	Graneros				
7648'	TD	232'	Dakota				

Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

TABULATIONS OF DEVIATION TESTS

TENNECO OIL COMPANY

DEPTH/INCLINATION(DEGREE)

310' KB	3/4
829' KB	1-1/2
1234' KB	2-1/4
1393' KB	2-3/4
1552' KB	1-3/4
1709' KB	1-1/4
2522' KB	1-1/2
3086' KB	1
3582' KB	1/2
4082' KB	3/4
4581' KB	1
4804' KB	2-1/2
4835' KB	2-1/2
4990' KB	2-1/4
5174' KB	2-1/4
5363' KB	1-1/4

DEPTH/INCLINATION(DEGREE)

5624' KB	1
5883' KB	1/1/4
6135' KB	2-1/4
6220' KB	4
6315' KB	4
6408' KB	4-3/4
6511' KB	5-1/4
6690' KB	5
6785' KB	4-3/4
6879' KB	4-3/4
6982' KB	4-1/4
7107' KB	3-3/4
7263' KB	3-1/4
7443' KB	3-3/4
7568' KB	3-1/4
7880' KB	3-3/4

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MAY 25 1984
OIL CON. DIV.
DIST. 3

AFFIDAVIT

This is to certify that to the best of my knowledge, the above tabulation details the deviation test taken on Tenneco Oil Company's well: Hubbard A1E, Sec. 30, 32N, R11W, San Juan County, New Mexico.

Signed: Scott McKinney

THE STATE OF COLORADO)
CITY AND COUNTY OF DENVER)

Before me, the undersigned authority, on this day, personally appeared, Scott McKinney, known to me to be an Agent for Tenneco Oil Company, and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, state that he has knowledge of the facts stated herein, and that said statement is true and correct. Subscribed and sworn to before me, a Notary Public in and for said County and State, this 16th day of May, 1984.

Carol A. Bennett
Notary Public

My Commission Expires:
/

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-

AD. OF EXP-ED RECEIVED	
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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 RE-ENTER TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-104) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER-
2. Name of Operator
Tenneco Oil Company
3. Address of Operator
P.O. Box 3249, Englewood, CO 80155
4. Location of Well
UNIT LETTER H 1450' FEET FROM THE North LINE AND 1190 FEET FROM
THE East LINE, SECTION 30 TOWNSHIP 32N RANGE 11W NMPM.

7. Unit Agreement Name
8. Farm or Lease Name
Hubbard A
9. Well No.
1E
10. Field and Pool, or Wildcat
Basin Dakota
12. County
San Juan

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

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUS AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
		OTHER <u>Progress Report</u>	

17. 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.

04/14/84: MIRUSU.

04/16/84: Tag cmt @ 7750 drl to PBTD @ 7839. PT TP 3600 psi, ok. Spot 500 gal 7-1/2% DI HCL @ 7784.

04/17/84: RIH PERF Dakota w/1 JSPF 7649-54, 7674-78, 7728-54, 7760-66, 7780-84 (45' 45 holes. Estab rate @ 2800 BPM & 3200 PSI. ISIP @ breakdn 400 psi. Acidize & ball off w/900 gal 15% WG HCL & 68 ball slrs. Acid away @ 24 BPM & 2000 psi. Fracd well w/144,000 gal 40# X-L gel & 204,000# 20/40 sd. Treated @ 53 BPM & 2100 psi. ISIP 1000 psi, 15 min SI 650 psi.

04/18/84: Land 2-3/8 tbg @.7733. NDBOP, NUWH, RDMOSU. Kick well around W/N₂.

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

SIGNED [Signature] TITLE Senior Regulatory Analyst DATE 4/19/84

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE APR 25 1984

CONDITIONS OF APPROVAL, IF ANY:

ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1

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 DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER- 2. Name of Operator <u>Tenneco Oil Company</u> 3. Address of Operator <u>P.O. Box 3249, Englewood, CO 80155</u> 4. Location of Well UNIT LETTER <u>H</u> <u>1450</u> FEET FROM THE <u>North</u> LINE AND <u>1190</u> FEET FROM THE <u>East</u> LINE, SECTION <u>30</u> TOWNSHIP <u>32N</u> RANGE <u>11W</u> NMPM. 15. Elevation (Show whether DF, RT, GR, etc.) <u>6538' GR</u> 7. Unit Agreement Name 8. Farm or Lease Name <u>Hubbard A</u> 9. Well No. <u>1E</u> 10. Field and Pool, or Wildcat <u>Basin Dakota</u> 12. County <u>San Juan</u>

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
OTHER <u>Progress Report</u>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

MIRURT, Spud w/Four Corners Rig #7 @ 1 p.m. 3-26-84. Drill to 320. RU & Run 7 jts 9-5/8" 36# K-55 ST&C csg set @ 320. Cmt w/10 bbls wtr ahead of 225 sx (243 cf) CL-B + 2% CaCl₂ + 1/4#/sx Flocele. Circ cmt to surface. WOC, NU BOPE & Test to 1000 psi, OK. 04/01/84:

RU & RUN 141 JTS (5412') 7" 23# K-55 ST&C csg, set @ 5380, DV @ 1534. Cmt W/10 bbls wtr ahead of 300 sx (552 cf) Lite + 1/4 SX/CF Perlite + 1/4#/SX Celloflakes. Tail w/150/sx (177cf) CL-B + 1/4#/SX Celloflakes. PD @ 12 a.m. 4-2-84. Open DV circ, cmt 2nd stage w/20 bbls zonelock ahead of 275 sx (506 cf) Lite + 1/4#/CF Perlite + 1/4#/SX Celloflakes, Tail w/50 sx CL-B (59 + 1/4#/SX Celloflakes. PD @ 4:45 a.m. 4-2-84. Circ 5 bbls cmt to surface, WOC, set slips. 04/05/84: Drill to TD 7880'.

04/06/84: RU & RUN 23 JTS 4-1/2 11.6# K-55 ST&C & 38 jts 4-1/2 10.5# K-55 ST&C csg set @ 7880, FC @ 7839 & TOL @ 5201. Cmt w/20 bbls cw ahead of 175 sx (322 cf) B-J Lite + 1/4 CF PERLITE. Tail w/100 sx (118 CF) CL-B neat. PD 1:40 p.m. 4-6-84. rig released 7 p.m. 4-6-84.

RECEIVED

APR 16 1984

OIL CON. DIV.

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

SIGNED Frank T. Chavez TITLE Sr. Production Analyst DATE 4/10/84

Original Signed by FRANK T. CHAVEZ

APPROVED BY _____ TITLE SUPERVISOR DISTRICT # 3 DATE APR 16 1984

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

30-045-25803

Form C-103
Revised 10-1-

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
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-

1. Name of Operator

Tenneco Oil Company

2. Address of Operator

P.O. Box 3249, Englewood, CO 80155

3. Location of Well

UNIT LETTER H 1450' FEET FROM THE N LINE AND 1190' FEET FROM
THE E LINE, SECTION 30 TOWNSHIP 32N RANGE 11W NMPM.

7. Unit Agreement Name

8. Farm or Lease Name

Hubbard A

9. Well No.

1E

10. Field and Pool, or Wildcat
Basin Dakota

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

6538' GR

12. County

San Juan

16.

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

OTHER Request extension of APD ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOB ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☐

17. 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.

Tenneco respectfully requests an extension of the APD for the referenced well.

Sept. 12, 1984

COPIES OF THIS NOTICE SUBMITTED
WITHIN 30 DAYS

RECEIVED

FEB 27 1984

OIL CON. DIV.
DIST. 3

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

SIGNED

TITLE Production Analyst

DATE

2/21/84

APPROVED BY

Original Signed by FRANK T. CHASE

TITLE

SUPERVISOR DISTRICT 2

DATE

FEB 27 1984

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
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U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

30-045-2580

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE ☐ FEE ☒
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Tenneco Oil Company		8. Farm or Lease Name Hubbard A
3. Address of Operator P.O. Box 3249, Englewood, CO 80155		9. Well No. 1E
4. Location of Well UNIT LETTER H LOCATED 1450 FEET FROM THE North LINE AND 1190 FEET FROM THE East LINE OF SEC. 30 TWP. 32N RGE. 11W NMPM		10. Field and Pool, or Wildcat Basin Dakota
		12. County San Juan
		19. Proposed Depth + 7885'
		19A. Formation Dakota
		20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 6538' GR	21A. Kind & Status Plug. Bond General	21B. Drilling Contractor Four Corners
		22. Approx. Date Work will start ASAP

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"	36#	+ 325'	Circulate to surface	
8 3/4"	7"	23#	+ 5400'	Circulate to surface - 2 st	
6 1/4"	4 1/2"	11.6, 10.5#	+ 7885'	Circulate to liner top	

See Attached.

The gas is dedicated.

RECEIVED
SEP 12 1983
OIL CON. DIV.
DIST. 3

APPROVAL EXPIRES 3-12-84
UNLESS DRILLING IS COMMENCED.
SPUD NOTICE MUST BE SUBMITTED
WITHIN 10 DAYS.

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.

By Denise Wilson Title Production Analyst Date September 8, 1983

(This space for State Use)

ED BY Frank J. Cherry TITLE SUPERVISOR DISTRICT # 3 DATE SEP 12 1983

IS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-10
Revised 1

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

Operator Tenneco Oil Company			Lease Hubbard A		Well No. 1E
Unit Letter H	Section 30	Township 32N	Range 11W	County San Juan	
Actual Footage Location of Well: 1450 feet from the North line and 1190' feet from the East line					
Ground Level Elev: 6538	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320 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.

<p>RECEIVED SEP 12 1983 OIL CON. DIV. DIST. 3</p>	<p>Sec</p>	<p>NM-010910 ARCO 50% NWPL 50%</p>
	<p>30</p>	<p>Fee Tenneco 50% Conoco 37% P. P. 13%</p>
		<p>NM-010989 Tenneco 50% Conoco 37% P. P. 13%</p>

CERTIFICATION

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

Denise Wilson
Name
Denise Wilson

Position
Production Analyst

Company
Tenneco Oil Company

Date
September 8, 1983

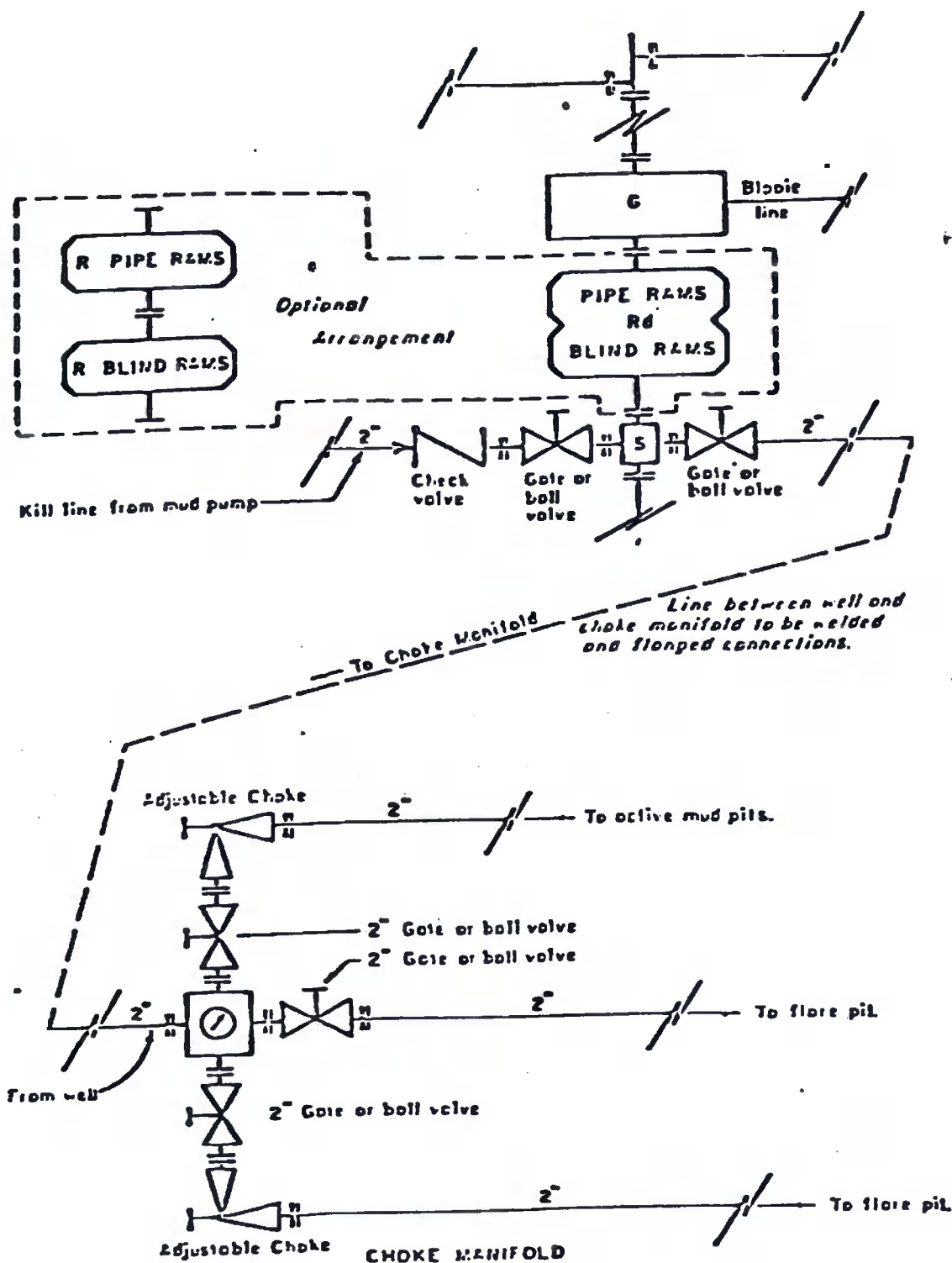
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
August 22, 1983

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 10



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AND
CHOKER MANIFOLD

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
6162 SOUTH WILLOW DRIVE
ENGLEWOOD, COLORADO 80155

DRILLING PROCEDURE

DATE: September 7, 1983

LEASE: Hubbard A

WELL NO: #1E

LOCATION: 1450' FNL, 1190' FEL
Section 30, T32N, R11W
San Juan County, NM

FIELD: Basin Dakota

ELEVATION 6,538' G.L.

TOTAL DEPTH: 7,885'

PROJECTED HORIZON: Dakota

SUBMITTED BY: Mark Kangas

DATE: September 7, 1983

APPROVED BY: *Mark Kangas*

DATE: Sept. 7, 1983

CC: Administration
CRJ Well File
Field File

Doc. #1368M

ESTIMATED FORMATION TOPS

Ojo	1,360'	Water
Kirtland	1,420'	
Fruitland	1,920''	Gas, Water
Pictured Cliffs	3,173'	Gas
Lewis	3,265'	
Cliff House	4,695'	Gas, Water
Menefee	4,870'	Gas, Water
Point Lookout	5,455'	Gas
Mancos	5,835'	
Gallup	6,505'	Oil/Gas
Greenhorn	7,540'	
Dakota	7,650'	Gas
TD	7,885'	

DRILLING, CASING AND CEMENT PROGRAM

1. MIRURT
2. Drill a 12-1/4" hole to \pm 325 ft. with a gel water mud.
3. Rig up and run 9-5/8" 36# K-55 ST&C casing to bottom. Cement with Class B + 2% CaCl_2 in sufficient quantity to circulate cement to surface. If conditions warrant the use of loss circulation agents, 1/4 #/sx celloflake may be added. Wait on cement a minimum of 12 hours prior to drilling out.
4. While waiting on cement, screw on a 9-5/8" -8rd X 11 3M casinghead. NU BOP's. Pressure test casing, blinds, manifold and lines to 1000 psi for 30 minutes. GIH and drill pipe and test the pipe rams in the same manner. Record all tests on the IADC report sheet.
5. Drill out with an 8-3/4" bit and clear water. Drill to \pm 5400' or 50' above the Point Lookout. Mud up prior to reaching intermediate T.D. Circulate at casing point a sufficient time to clean the hole to run casing.
6. Install casing rams, run 7" 23# K-55 casing equipped with a guide shoe to bottom, float collar one joint up and a stage collar 200' below the Ojo Alamo. Bakerlock from the shoe to the top of the float collar and run casing to bottom.

INTERMEDIATE CEMENTING PROGRAM

<u>FIRST STAGE</u>	<u>LEAD</u>	<u>TAIL</u>
Type		C1 B + 2% CaCl_2 + 1/4 #/sx flocele.
Sacks		150-200 sx
Slurry yield		1.18 cuft/sx
Mix weight		15.6 ppg
Water req's.		5.20 gal/sx

SECOND STAGE	LEAD	TAIL
Type	Howco Lite + 1/4 #/sx flocele + 2% CaCl ₂	Cl B + 2% CaCl ₂
Sacks	Calculated annular volume	50-75
Slurry yield	1.84 cuft/sx	1.18 cuft/sx
Mix weight	12.7 ppg	15.6 ppg
Water req's.	9.9 gal/sx	5.2 gal/sx

Precede the first stage with 10 bbls "flow-check" or its equivalent and circulate four hours after opening the stage tool. The second stage can be preceded by 20 bbls of chemical wash unless lost circulation is a problem and flow check is necessary. If cement is not circulated to surface, run a temperature survey after 6 hours to determine actual TOC as the MMS requires. Wait on cement a total of 18 hours from first plug down before drilling ahead.

7. Set slips with casing in full tension and cut-off. NU BOE and test as in procedure 4 above. Record tests on IADC report.
8. Drill out, dry up hole and drill a 6-1/4" hole to T.D. surveying as required. Lay down square drill collar before cutting the Dakota.
9. Log open hole as directed by GE department.
10. If productive, run 4-1/2" 11.6# and 10.5# K-55 casing as a liner. Equip the casing with a float shoe and latch down collar on the top of the first joint. No threadlock is to be used on this arrangement. Hang liner with a 150' lap in the intermediate casing.
11. Cement with a filler slurry as used for the intermediate string. Start with a 20 barrel mud flush, followed by the lead slurry with a fluid loss control additive and tail with 150 sx Class B. Use sufficient quantity (50-75% excess) to circulate cement to the liner top.
12. Circulate out the excess cement, LDDP and MORT.
13. In non-productive, P & A as required by USGS.
14. Install tree and fence remainder of reserve pit.

CASING PROGRAM

<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>OPTIMUM MAKE-UP TORQUE</u>
0-325	325	9-5/8	36. #	K-55	STC 4230
0-5400	5400	7	23. #	K-55	STC 3090 LTC 3410
5250-7000	1750	4-1/2	10.5#	K-55	STC 1460
7000-7885	885	4-1/2	11.6#	K-55	STC 1700 LTC 1800

MUD PROGRAM

0-325'	Spud mud.
325-5400'	Low solid, fresh water mud. (Water and Benex.) Mud up prior to running casing.
5400'-T D	Gas

EVALUATION

Cores and DST's:

NONE.

Deviation Surveys

1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2°
2. From surface to the Mancos formation, deviation surveys must be taken every 500'. In the Mancos/Gallup zones, surveys to be each 250'. Record all surveys in IADC Report book. Maximum allowable change in deviation is 1° per 100'. Maximum deviation allowable is 5°.

Samples:

As requested by Wellsite Geological Engineer

Logs:	1. GR/INDUCTION	T D - Intermediate shoe
	2. GR/FDC/Cal	T.D. - minimum

BLOWOUT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

OFFICE DIRECTORY

Charles R. Jenkins	740-2575
Ted McAdam	740-2576
Tom Dunning	740-4813
Mark Kangas	740-4810

In case of emergency or after hours call the following in the preferred order.

(1)	Mark Kangas	740-4810	Office
	Senior Drilling Engineer	973-8846	Home
(2)	Ted McAdam	740-2576	Office
	Senior Drilling Engineer Specialist	978-0724	Home
(3)	Charles R. Jenkins	740-2575	Office
	Division Drilling Engineer	987-2290	Home
(4)	Harry Hufft	771-5257	Home
	Division Production Manager		

(EL PASO & COLO. O & B)

Teneco
Hubbard A 1E

1450' FNL 1190' FEL Sec 30, T32N,
San Juan County R11W
New Mexico



CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

04/28/03 10:55:53
OGOMES -TP8P
PAGE NO: 1

Sec : 30 Twp : 32N Rng : 11W Section Type : NORMAL

1 37.58	C 40.00	B 40.00	A 40.00
Federal owned	Federal owned	Federal owned	Federal owned
	C	A	A
2 37.36	F 40.00	G 40.00	H 40.00
Fee owned	Fee owned	Fee owned	Fee owned
A			A A

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12



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.: 2000040613

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

AUTHORIZED SIGNATURE

⑈0800552148⑈ ⑆031100209⑆

39116481⑈



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

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:

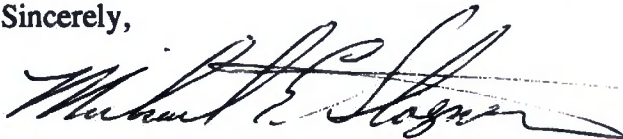
This letter is to be included with the submission of U.S. Bureau of Land Management (USBLM) designation, assigned Docket No. NM-1813-92, to the Federal Energy Regulatory Commission (FERC). Said designation is for a "tight formation" in the State of New Mexico. The formation referred to is the Mesaverde 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". The signature is fluid and cursive, with a long horizontal stroke 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)

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

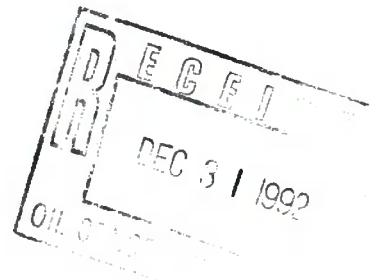
Sections 01 - 12:	All
Section 15:	W/2
Sections 16 - 21:	All
Section 22:	W/2
Section 27:	NW/4
Section 28:	N/2
Sections 29 - 30:	All

Township 27 North, Range 8 West

Sections 1 - 36: All

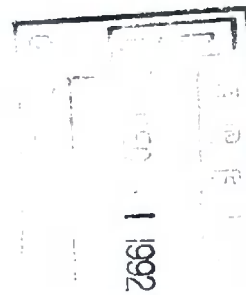
Township 28 North, Range 7 West

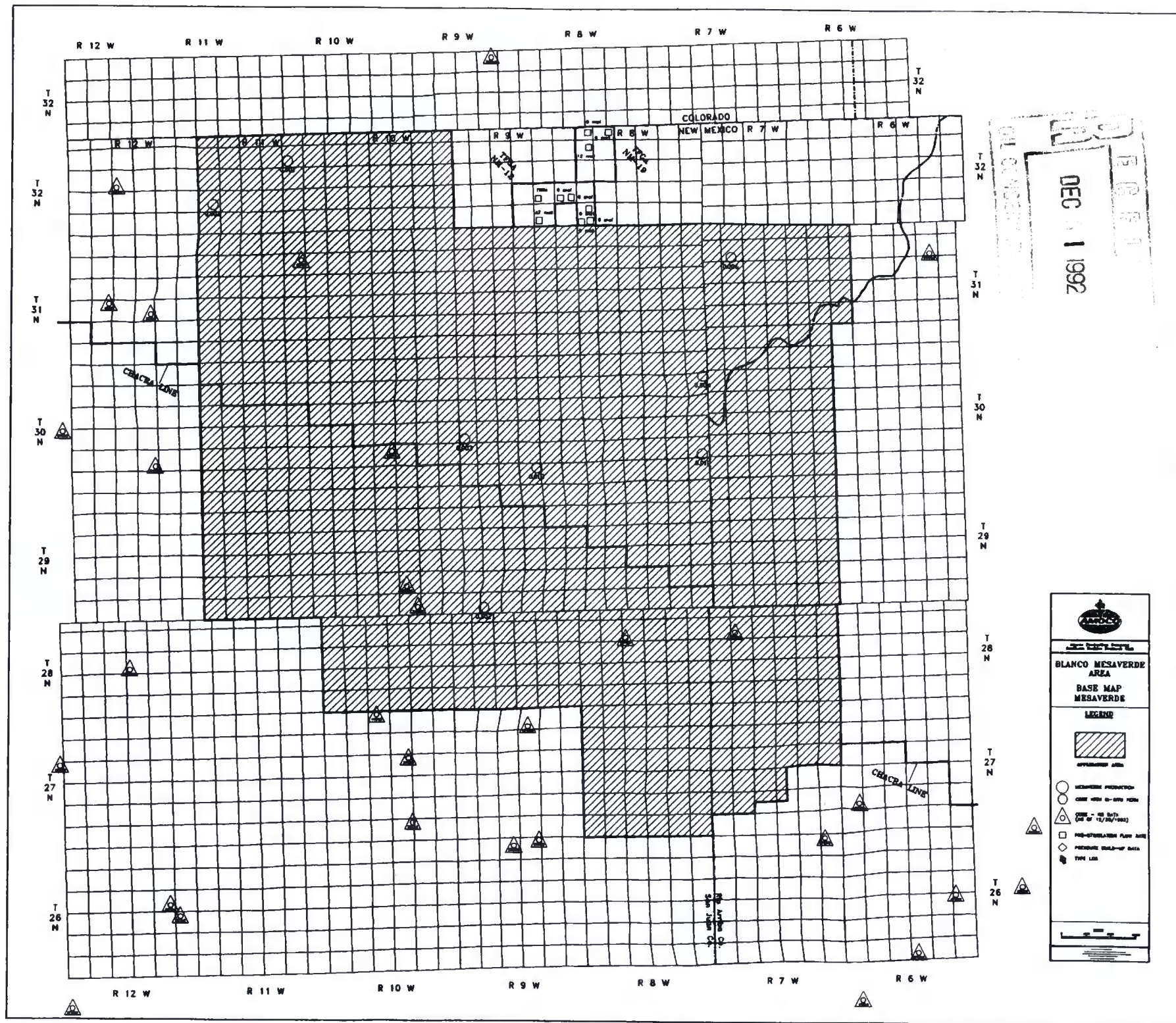
Sections 7 - 36: All
(irregular township)



<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%







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.

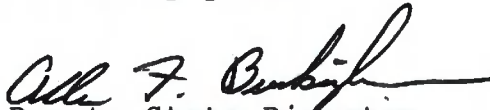
Included with this designation is a letter dated July 26, 1993, from the Chief Hearing Officer/Engineer, New Mexico Oil Conservation Division signifying their concurrence with this designation.

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 6840-01-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. Linwood 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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NM-48
Final on 13 Sep 93
OK

480,076 acres.
MV Group

NM-1813-92

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