

Dead set for leaving  
on Sept 6

Don not gaily for automobile  
approved

Done

8-3-29



**Amoco Production Company**

Houston Region  
501 WestLake Park Boulevard  
Post Office Box 3092  
Houston, Texas 77253

James F. Trickett  
Regional Environmental, Safety &  
Regulatory Affairs Manager

July 6, 1989

William J. LeMay, Director  
State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

File: WGW-5841-986.51NM

Gentlemen:

Downhole Commingling Authority  
Federal DH Gas Com Well No. 1  
Scoggins Draw Strawn and Morrow Pools  
Section 11-18S-27E, Eddy County, New Mexico

Amoco Production Company respectfully requests administrative approval to commingle production from the Scoggins Draw Strawn and Scoggins Draw Morrow pools downhole in our Federal DH Gas Com Well No. 1, Section 11-18S-27E, Eddy County, New Mexico.

The subject well was drilled as a wildcat in 1984 to a total depth of 11,915' in the Ellenburger formation. The Ellenburger and the Silurian (both wildcat zones) tested wet and the initial completion was made in the Strawn over the interval 9295'-9308'. The well had an initial shut-in bottom hole pressure of 3476 PSIG on October 10, 1984, and initially tested 74 Barrels Condensate, 0.5 Barrels Water and 3932 MCFD, with a Flowing Tubing Pressure of 1605 PSIG on October 15, 1984. Following the test on October 15, 1984 a shut in bottom hole pressure of 2694 PSIG was recorded. Due to a lack of market, the well was not connected to a pipeline and produced until November, 1986. The initial sales rate of 1275 MCFD at 1300 PSIG rapidly declined to approximately 30 MCFD at 50 PSIG FTP by January, 1987. The shut-in bottom hole pressure declined from 2567 PSIG (shut-in tubing pressure of 840 PSIG) on November 7, 1986 to 643 PSIG (shut-in tubing pressure of 380 PSIG) on December 3, 1986. The well has been shut-in since January 1987. Cumulative production from this well is estimated at 30 MMCF.

**RECEIVED**

**JUL 10 1989**

**OIL CONSERVATION DIV.  
SANTA FE**

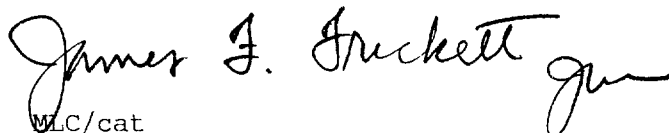
*Case 9747*

The estimated bottom hole pressure in the Morrow is 2500 PSI, assuming that some drainage has occurred. Virgin pressure is estimated at 3700 PSI. Estimated reserves in the Morrow are 546 MMCF based on pore volume calculations and the estimated initial rate is 800 MCFD. The shut-in BHP in the Strawn is less than 50% of the shut-in BHP in the Morrow. However, the Strawn zone appears to be extremely limited in lateral extent. Although some gas will flow into the Strawn from the Morrow horizon, pressure equalization should occur very rapidly and no loss of reserves should result.

Amoco's intent, in down hole commingling, is to recover the remaining reserves in the Strawn which otherwise may not be produced due to economic restraints and reduce the recompletion cost associated with the cement squeeze, drill out and recompletion to the Morrow. Attached, in support of our application, are Forms 3160-3, C-102, wellbore sketch and production data for the Strawn Formation.

Should you have any questions, please contact J.C. Collier at 713-556-3371 or Mary Corley at 713-556-4491 of our Regulatory Affairs Section.

Yours very truly,

  
WLC/cat

Attachments

J. T. Sexton, Supervisor  
P. O. Box 1960  
Hobbs, New Mexico 88240

FEDERAL DH GAS COM NO. 1  
STRAWN 9295' - 9308'  
PERFORMANCE DATA

DATE	WELL STATUS	RATE	PRESSURE	MEASUREMENT POINT
10/11/84	SI	- - -	2658 PSIG	9130'
10/15/84	FLOW	3932 MCFD	1605 PSIG	WELLHEAD - TUBING
10/16/84	SI	- - -	2694 PSIG	9130'
11/06/86	SI	- - -	2567 PSIG	9130'
11/13/86	FLOW	1275 MCFD	1300 PSIG	WELLHEAD - TUBING
11/18/86	FLOW	1005 MCFD	975 PSIG	WELLHEAD - TUBING
12/03/86	SI	- - -	643 PSIG	9130'
12/10/86	FLOW	589 MCFD	90 PSIG	WELLHEAD - TUBING
12/16/86	FLOW	236 MCFD	90 PSIG	WELLHEAD - TUBING
01/13/87	FLOW	30 MCFD	50 PSIG	WELLHEAD - TUBING
01/26/87	SI	- - -	5 PSIG	9130'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☒

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☒

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P.O. Box 3092, Houston, TX 77253

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

700' FSL x 990' FWL (Unit M, SW/4 SW/4)

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14 miles southeast of Artesia, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

698'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

11,915

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3546.0' GR

22. APPROX. DATE WORK WILL START\*

7-1-89

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	502'	700 SKS.
12 1/4"	9 5/8"	36#	2200'	1400 SKS
7 7/8"	5 1/2"	15.5 & 17#	11915'	2720 SKS.

Proposed downhole commingle Scroggins Draw Morrow with Scroggins Draw Strawn.  
Perf Morrow Formation at 9834'-9846' as per attached well bore sketch.

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Mary Coley*

TITLE

Sr. Adm. Analyst

DATE

6/30/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

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

Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>Federal "DH" Gas Comm.</b>		Well No. <b>1</b>
Unit Letter <b>M</b>	Section <b>11</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>West</b> line and <b>698</b> feet from the <b>South</b> line					
Ground Level Elev. <b>3546.0</b>	Producing Formation		Pool	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Division.

*Amoco Production Co.  
Mallco "S" Federal Well No. 1  
1650' FNL - 1653' FNL  
Spud: 10/16/71  
Completed in the Seesaw Draw  
Morrow Gas Pool  
(w/2 Dedication)  
Recompleted to Van Woburns Feb. 1985  
Communitized Morrow Prod.  
Gas - 5685 MCF  
Oil - 11983 Bbl.*

*Well Paid 1985*

**WORKING INTEREST PARTICIPATION:**  
Amoco Production Company 37.5%  
Hondo Oil & Gas Company 37.5%  
Yates Petroleum Company 25.0%

NM 29272  
160 Ac.  
(SW/4)

NM 36496  
40 Ac.  
(NW/4 of SE/4)

NM 41643  
80 Ac.  
(E/2 of SE/4)

NM 51832  
40 Ac.  
(SW/4 of SE/4)

990'  
698'

**CERTIFICATION**

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

*Mary L. Corley*  
Mary L. Corley

Name

Sr. Admin. Analyst

Position

Amoco Production Company

Company

6/30/89

Date

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.

*John N. Wilson*  
May 10 & 11, 1989

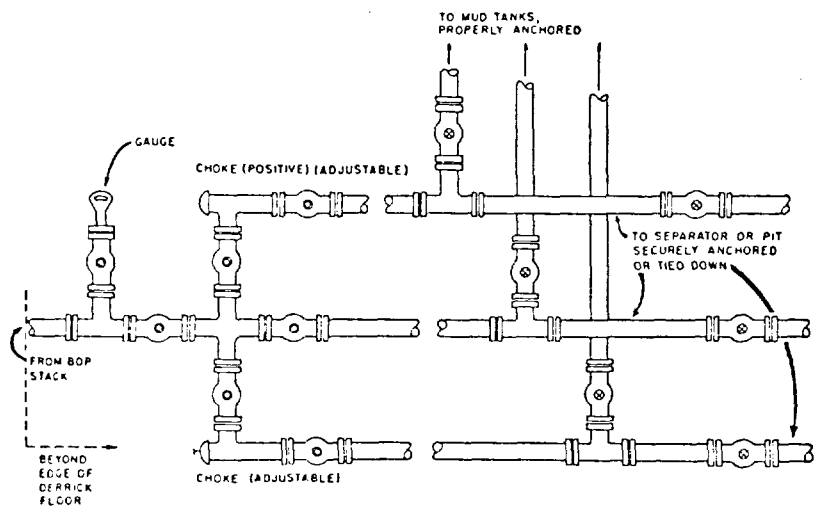
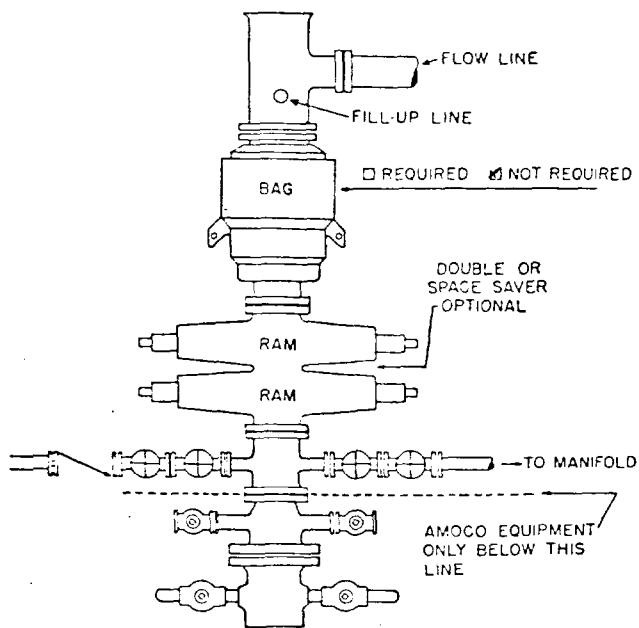
Date Surveyed

JOHN N. WILSON

Registered Land Surveyor

Certificate No.

7475







Amoco Production Company

## Diagrammatic Sketch

Well: Federal "D" Gas Com Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

## Elevations

KB: 3566'DF: 3565'GL: 3546'Date: \_\_\_\_\_  
(of first completion)

## Current Wellbore

5-18-84: Well spudded.  
331 of 20" 52,74#  
CSG cemented with  
3 yards redimix.  
5-26-84: 13 3/8" CSA 500'  
in 17 1/2" hole w/700 sx  
Class C cement.  
6-1-84: 9 5/8" CSA 2200' in  
12 1/4" hole. DV tool at 973'.  
Cmt 1st stage with 950 sx  
Class C Neat. Displace cmt  
w/160 bbl. Circ 199 sx to pit.  
Open DV tool. Pump 100 bbl of  
14.4 mud and 450 sx Class C cmt  
with 2% calcium chloride. Circ  
106 sx cmt. Disp w/773 bfw.  
8-4-84: 5 1/2" CSA 11915' in 7 7/8"  
hole. DV tool at 6417'.  
Cmt 1st stage with 420 sx  
Class H Lite with additives  
and with 900 sx Class H with  
additives. Open DV tool and  
circ 73 sx. Cmt 2nd stage  
with 1,000 sx Class H with  
additives and with 400 sx  
Class H Neat. Circ 218 sx to pit.

DV TOOL AT 973'

DV TOOL AT 6417'

Strawn  
Perfs 9295'-9308'

CIBP @ 10700' Cap w/ 35' CMT

Silurian

Perfs 10774-10792

CIBP @ 11610' Cap w/ 35' CMT

Ellenburger

Perf 11645'-11908' (non continuous)

TD 11,915'



Amoco Production Company

Diagrammatic Sketch

Well: Federal "DH" Gas Com Well No. 1

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Elevations

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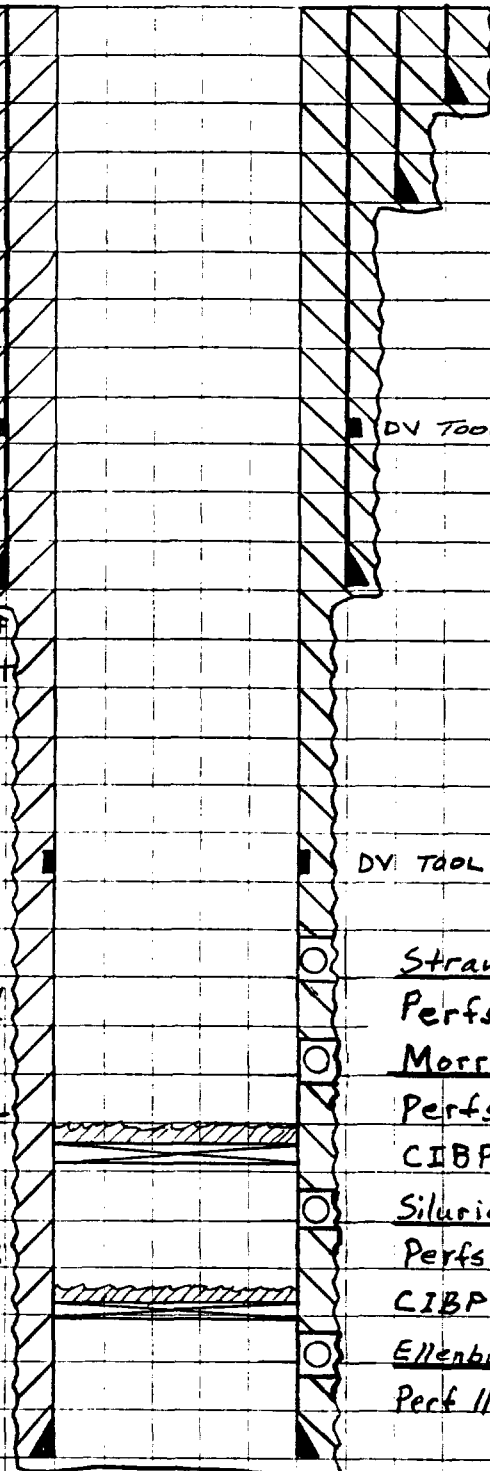
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Date: \_\_\_\_\_  
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Morrow

Perfs 9834'-9846'

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CIBP @ 11610' Cap w/ 35' CMT

Ellenburger

Perf 11645'-11908' (non continuous)

TD 11,915'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 29272
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Amoco Production Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 3092, Houston, TX 77253			8. FARM OR LEASE NAME Federal-DH-Gas Com
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 700' FSL x 990' FWL (Unit M, SW/4 SW/4) At proposed prod. zone			9. WELL NO.
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 14 miles southeast of Artesia, NM			10. FIELD AND POOL, OR WILDCAT Scoggins Draw Morrow
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 698'		16. NO. OF ACRES IN LEASE 320	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 11,915	12. COUNTY OR PARISH Eddy
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3546.0' GR		20. ROTARY OR CABLE TOOLS Rotary	13. STATE NM
22. APPROX. DATE WORK WILL START* 7-1-89			

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	502'	700 SKS.
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OIL CONSERVATION DIV.  
LAND & FE

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Mary Coley TITLE Sr. Adm. Analyst DATE 6/30/89  
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

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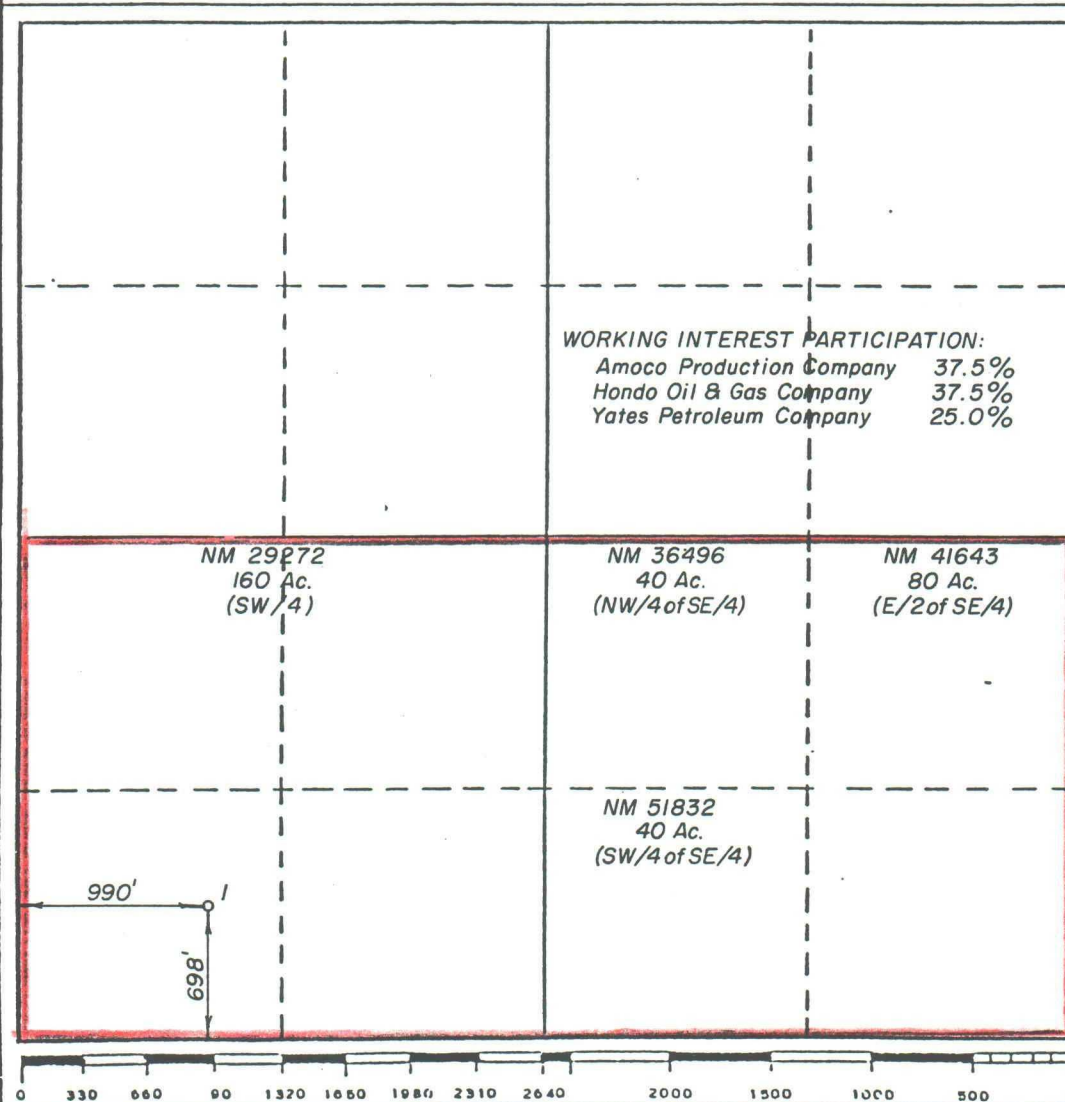
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*Mary L. Corley*  
Name

Sr. Admin. Analyst

Position  
Amoco Production Company

Company  
6/30/89

Date

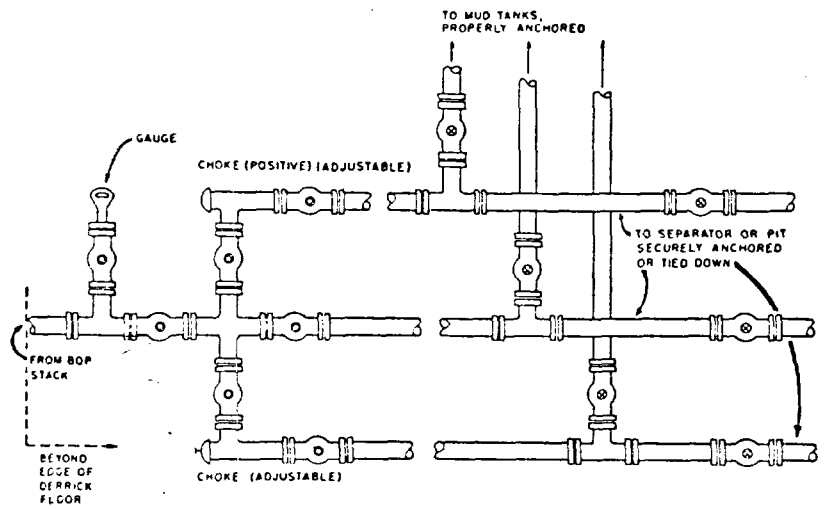
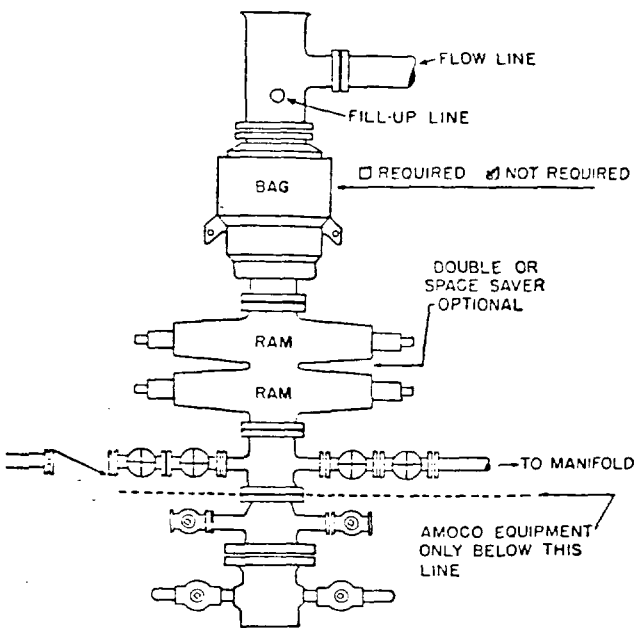
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May 10 & 11, 1989

Date Surveyed  
JOHN N. WILSON

Registered Land Surveyor

*John N. Wilson*  
Certificate No. 7475





Amoco Production Company

## Diagrammatic Sketch

Well: Federal "D" Gas Com Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Elevations

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(of first completion)

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Amoco Production Company  
Diagrammatic Sketch

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DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☒

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☒

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P.O. Box 3092, Houston, TX 77253

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

700' FSL x 990' FWL (Unit M, SW/4 SW/4)

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14 miles southeast of Artesia, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

698'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED

TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

11,915

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3546.0' GR

22. APPROX. DATE WORK WILL START\*

7-1-89

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	502'	700 SKS.
12 1/4"	9 5/8"	36#	2200'	1400 SKS
7 7/8"	5 1/2"	15.5 & 17#	11915'	2720 SKS.

Proposed downhole commingle Scroggins Draw Morrow with Scroggins Draw Strawn.  
Perf Morrow Formation at 9834'-9846' as per attached well bore sketch.

RECEIVED

JUL 10 1989

OIL CONSERVATION DIV.  
LAND OFFICE

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Mary Coley*

TITLE Sr. Adm. Analyst

DATE 6/30/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the



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

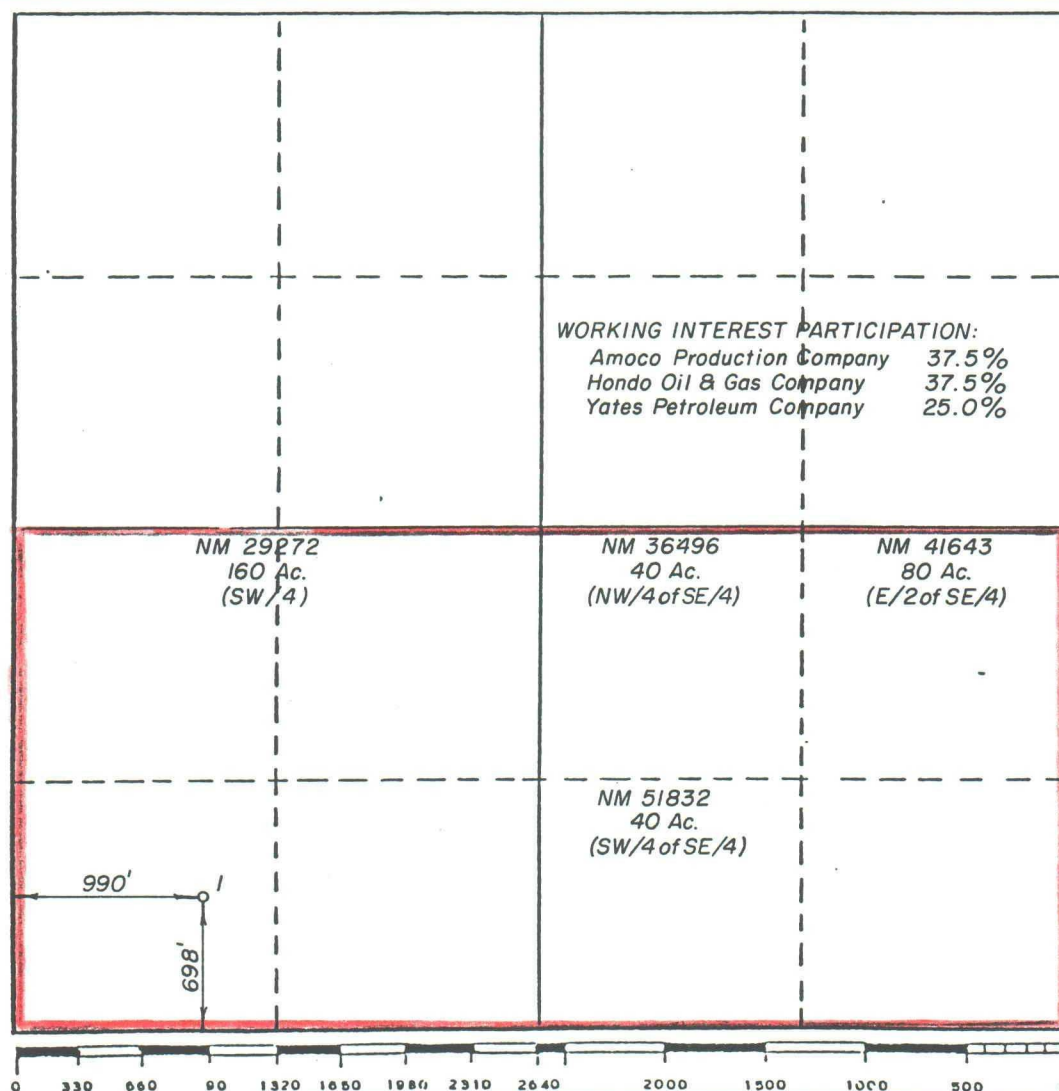
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>Federal "DH" Gas Comm.</b>		Well No. <b>1</b>
Unit Letter <b>M</b>	Section <b>11</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>West</b> line and <b>698</b> feet from the <b>South</b> line					
Ground Level Elev. <b>3546.0</b>	Producing Formation		Pool	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Division.



# CERTIFICATION

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

Mary L. Corley

Name

Sr. Admin. Analyst

Position

Amoco Production Company

Company

6/30/89

Date

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.

May 10 & 11, 1989

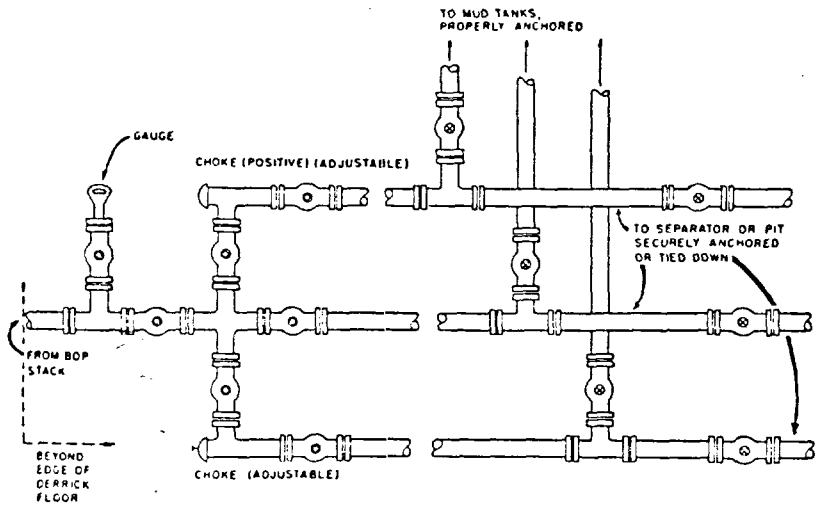
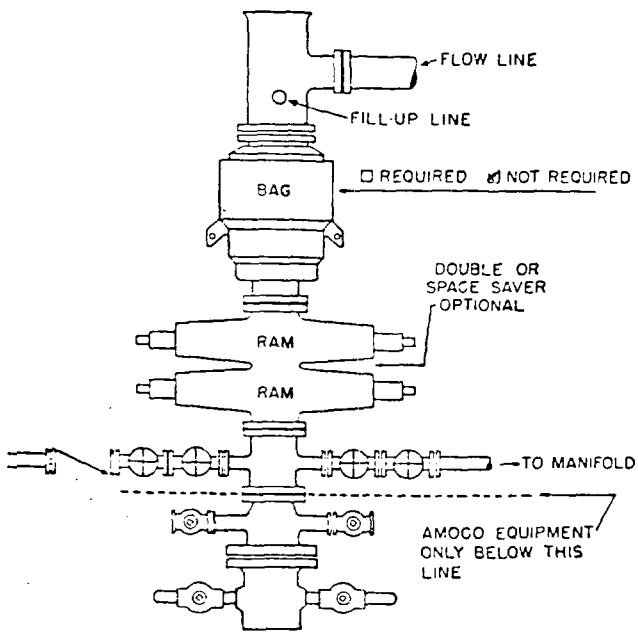
Date Surveyed

JOHN N. WILSON

Registered Land Surveyor

*John N. Wilson*

Certificate No. 7475





Amoco Production Company

## Diagrammatic Sketch

Well: Federal "D" Gas Com Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

## Elevations

KB: 3566'DF: 3565'GL: 3546'Date: \_\_\_\_\_  
(of first completion)

## Current Wellbore

5-18-84: Well spudded.

331 of 20" 52,74#

CSG cemented with

3 yards redimix.

5-26-84: 13 3/8" CSA 500'

in 17 1/2" hole w/ 700 sx

Class C cement.

6-1-84: 9 5/8" CSA 2200' in

12 1/4" hole. DV tool at 973'.

Cmt 1st stage with 950 sx

Class C Neat. Displace cmt

w/ 160 bbl. Circ 199 sx to pit.

Open DV tool. Pump 100 bbl of

14.4 mud and 450 sx Class C cmt

with 2% calcium chloride. Circ

106 sx cmt. Disp w/ 73 bfw.

8-4-84: 5 1/2" CSA 11915' in 7 7/8"

hole. DV tool at 6417'.

Cmt 1st stage with 420 sx

Class H Lite with additives

and with 900 sx Class H with

additives. Open DV tool and

circ 73 sx. Cmt 2nd stage

with 1,000 sx Class H with

additives and with 400 sx

Class H Neat. Circ 218 sx to pit.

DV TOOL AT 973'

DV TOOL AT 6417'

Strawn

Perfs 9295'-9308'

CIBP @ 10700' Cap w/ 35' CMT

Silurian

Perfs 10774-10792

CIBP @ 11610' Cap w/ 35' CMT

Ellenburger

Perf 11645'-11908' (non continuous)

TD 11,915'



Amoco Production Company

## Diagrammatic Sketch

Well: Federal "DTH" Gas Comp Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

## Elevations

KB: 3566'DF: 3565'GL: 3546'Date: \_\_\_\_\_  
(of first completion)

## Proposed Wellbore

5-18-84: Well spudded.

331 of 20" 52.74#

CSG cemented with

3 yards redmix.

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Class C cement.

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12 1/4" hole, DV tool at 973'

Cmt 1st stage with 950 sx

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Class H Neat. Circ 218 sx to pit.

DV TOOL AT 973'

DV TOOL AT 6417'

Strawn

Perfs 9295'-9308'

Morrow

Perfs 9834'-9846'

CIBP @ 10700' Cap w/ 35' CMT

Silurian

Perfs 10774'-10792'

CIBP @ 11610' Cap w/ 35' CMT

Ellenburger

Perf 11645'-11908' (non continuous)

TD 11,915'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 29272	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 3092, Houston, TX 77253			8. FARM OR LEASE NAME Federal-DH-Gas Com	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 700' FSL x 990' FWL (Unit M, SW/4 SW/4) At proposed prod. zone			9. WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 14 miles southeast of Artesia, NM			10. FIELD AND POOL, OR WILDCAT Scoggins Draw Morrow	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 698'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27	
16. NO. OF ACRES IN LEASE 320			12. COUNTY OR PARISH 13. STATE Eddy NM	
17. NO. OF ACRES ASSIGNED TO THIS WELL 320			20. ROTARY OR CABLE TOOLS Rotary	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			21. APPROX. DATE WORK WILL START* 7-1-89	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3546.0' GR				

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	502'	700 SKS.
12 1/4"	9 5/8"	36#	2200'	1400 SKS
7 7/8"	5 1/2"	15.5 & 17#	11915'	2720 SKS.

Proposed downhole commingle Scroggins Draw Morrow with Scroggins Draw Strawn.  
Perf Morrow Formation at 9834'-9846' as per attached well bore sketch.

RECEIVED

JUL 10 1989

OIL CONSERVATION DIV.  
LAWLIFE

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Mary Colley TITLE Sr. Adm. Analyst DATE 6/30/89  
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representation.



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

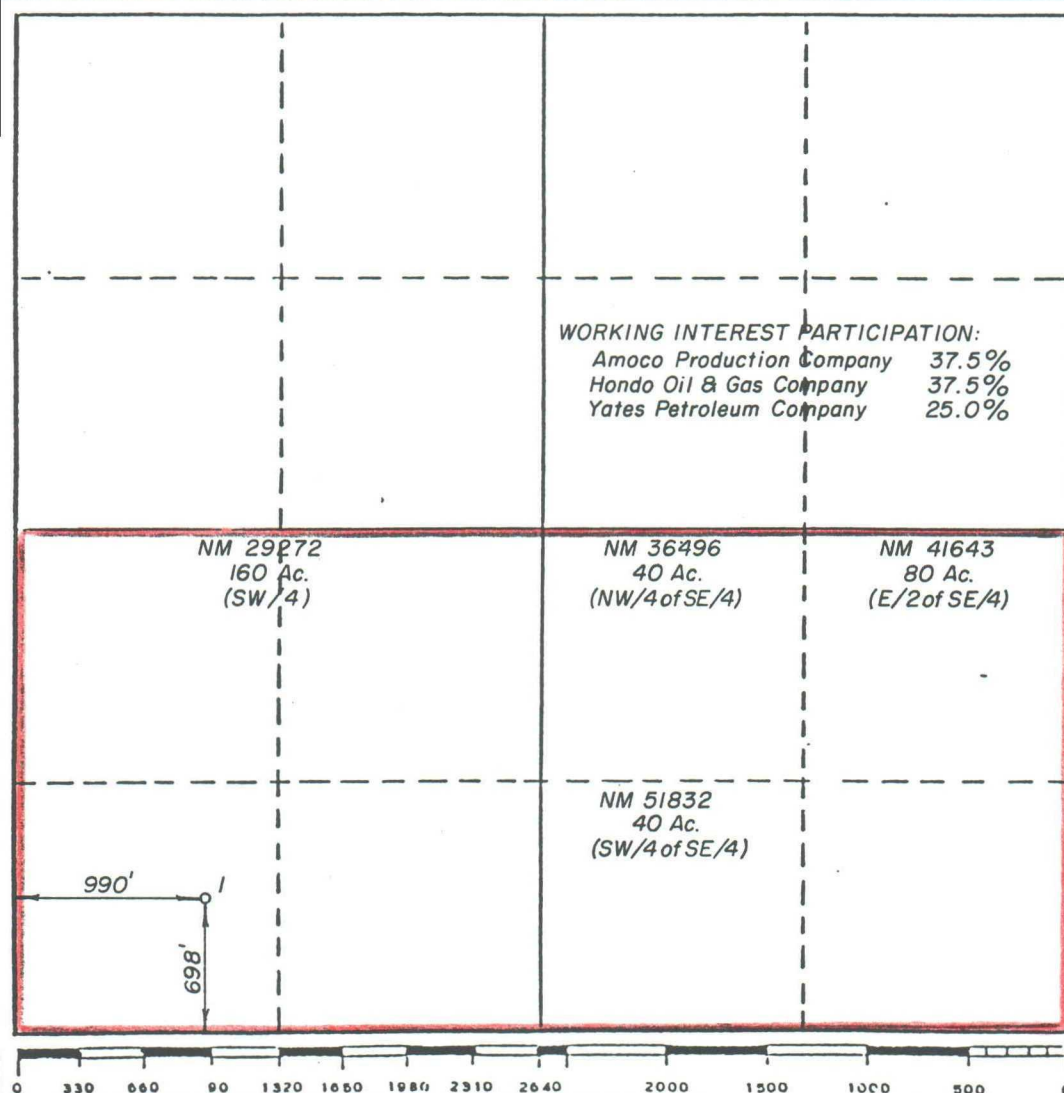
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>Federal "DH" Gas Comm.</b>			Well No. <b>1</b>		
Unit Letter <b>M</b>	Section <b>11</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>				
Actual Footage Location of Well: <b>990</b> feet from the <b>West</b> line and <b>698</b> feet from the <b>South</b> line								
Ground Level Elev. <b>3546.0</b>	Producing Formation		Pool			Dedicated Acreage: <b>320</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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).
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☒ 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 Division.



CERTIFICATION

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

*Mary L. Corley*  
Mary L. Corley

Name  
Sr. Admin. Analyst

Position  
Amoco Production Company

Company  
6/30/89

Date

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.

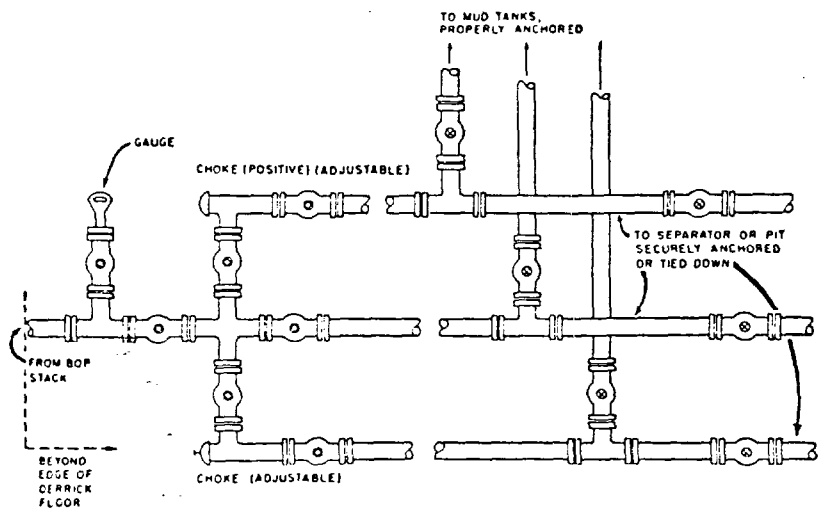
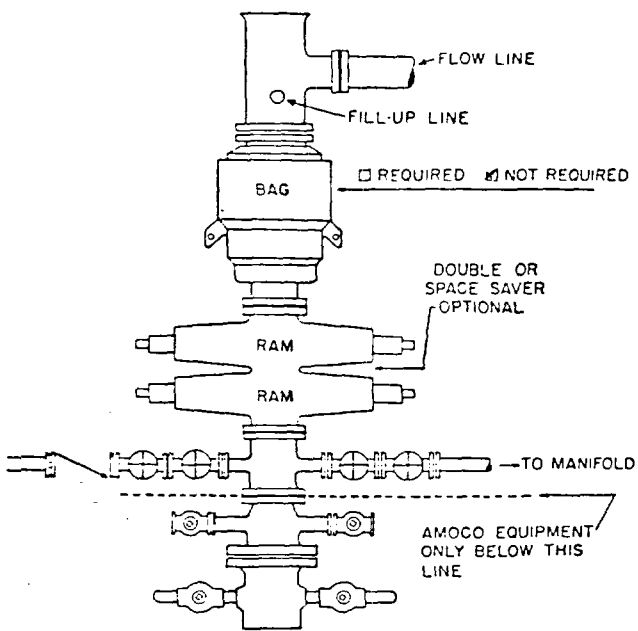
May 10 & 11, 1989

Date Surveyed  
JOHN N. WILSON

Registered Land Surveyor

*John N. Wilson*

Certificate No. 7475





Amoco Production Company  
Diagrammatic Sketch

Elevations

KB: 3566'

DF: 3565'

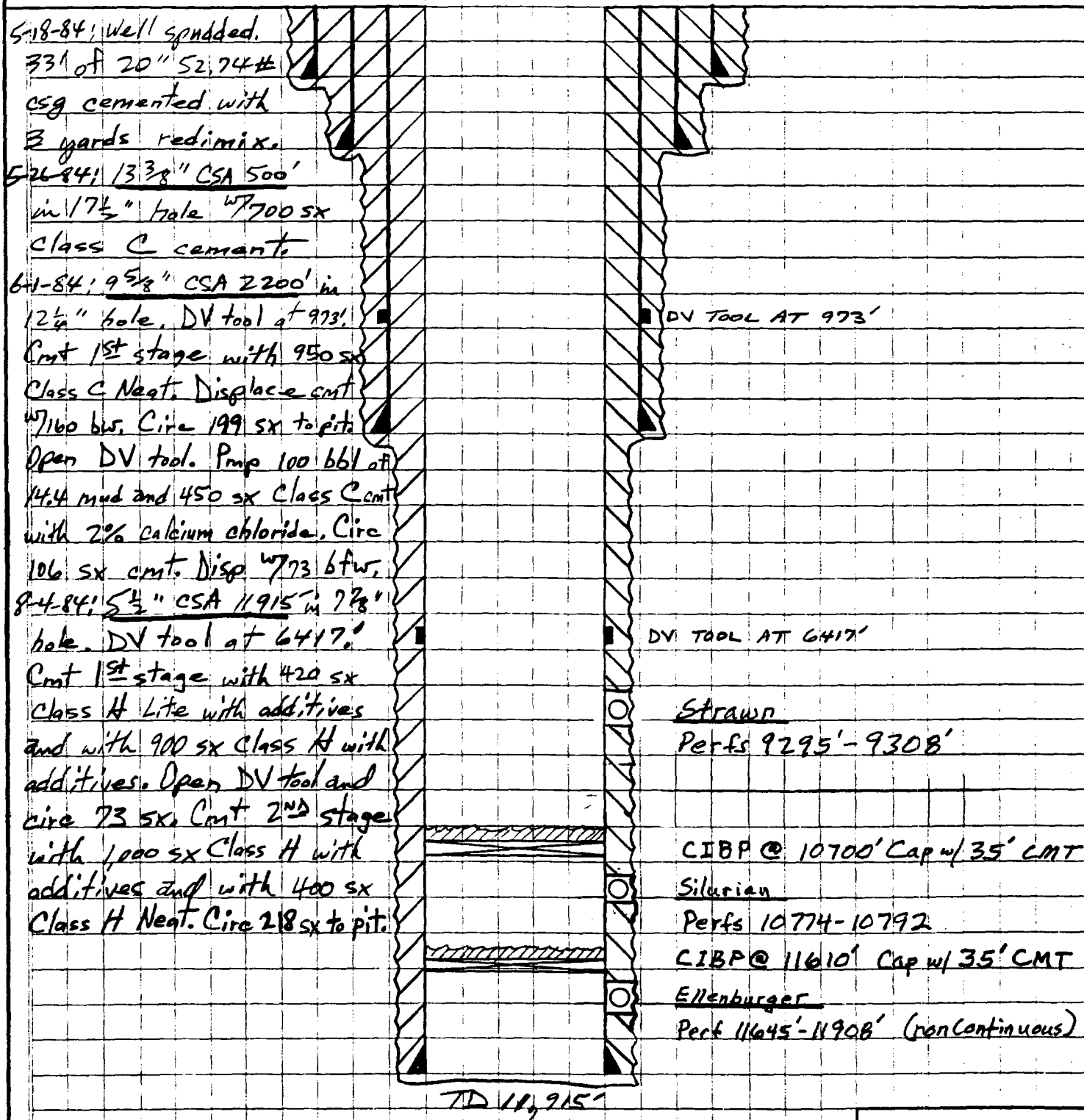
GL: 3546'

Well: Federal "D" Gas Com Well No. 1

Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Date: \_\_\_\_\_  
(of first completion)

Current Wellbore







Amoco Production Company

Diagrammatic Sketch

Elevations

KB: 3566'

DF: 3565'

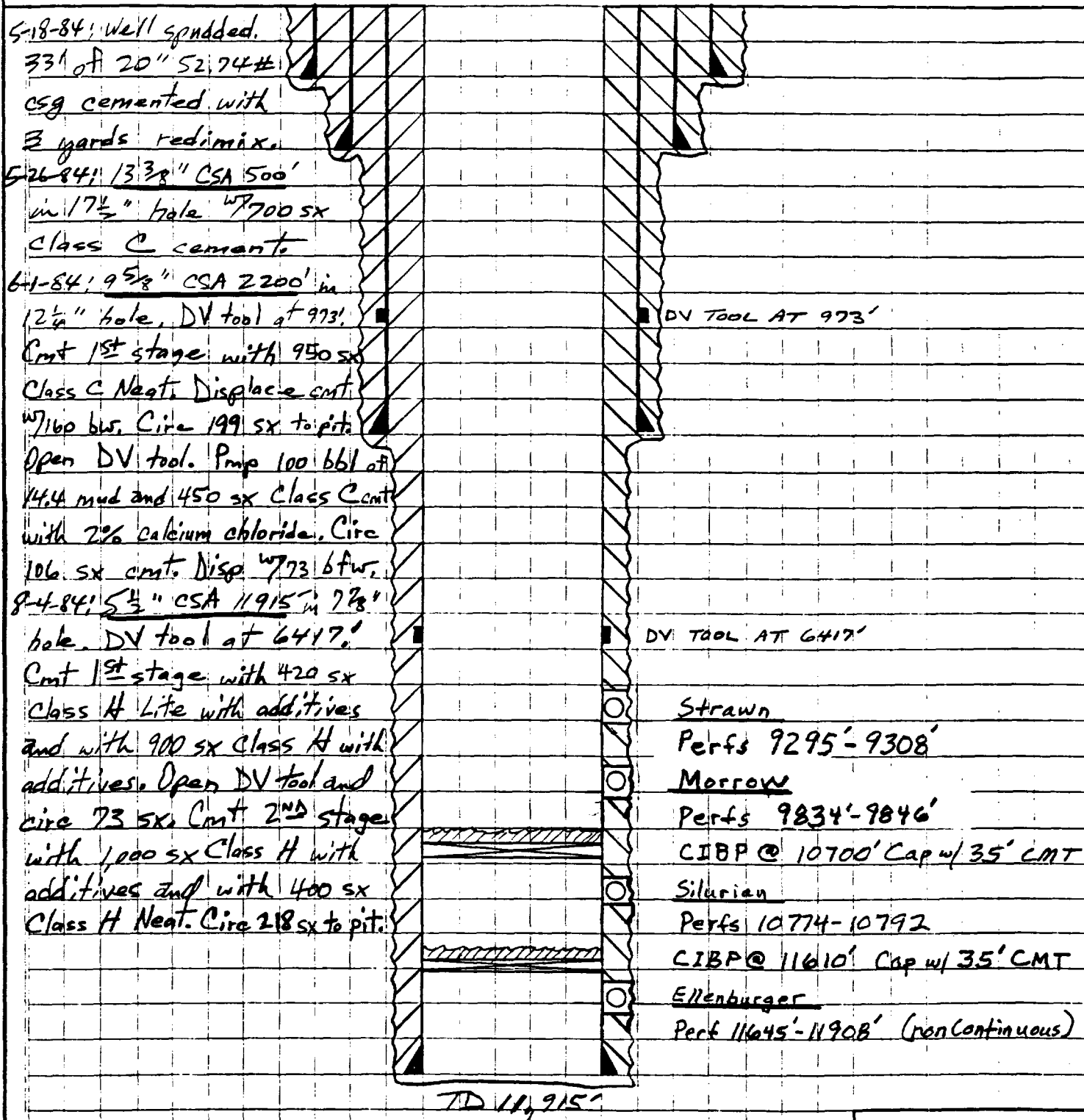
GL: 3546'

Well: Federal "D.H." Gas Com Well No. 1

Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Date: \_\_\_\_\_  
(of first completion)

Proposed Wellbore



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☒

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☒

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P.O. Box 3092, Houston, TX 77253

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

700' FSL x 990' FWL (Unit M, SW/4 SW/4)

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14 miles southeast of Artesia, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

698'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

11,915

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3546.0' GR

22. APPROX. DATE WORK WILL START\*

7-1-89

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	502'	700 SKS.
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Proposed downhole commingle Scroggins Draw Morrow with Scroggins Draw Strawn.  
Perf Morrow Formation at 9834'-9846' as per attached well bore sketch.

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Mary Coley*

TITLE

Sr. Adm. Analyst

DATE

6/30/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

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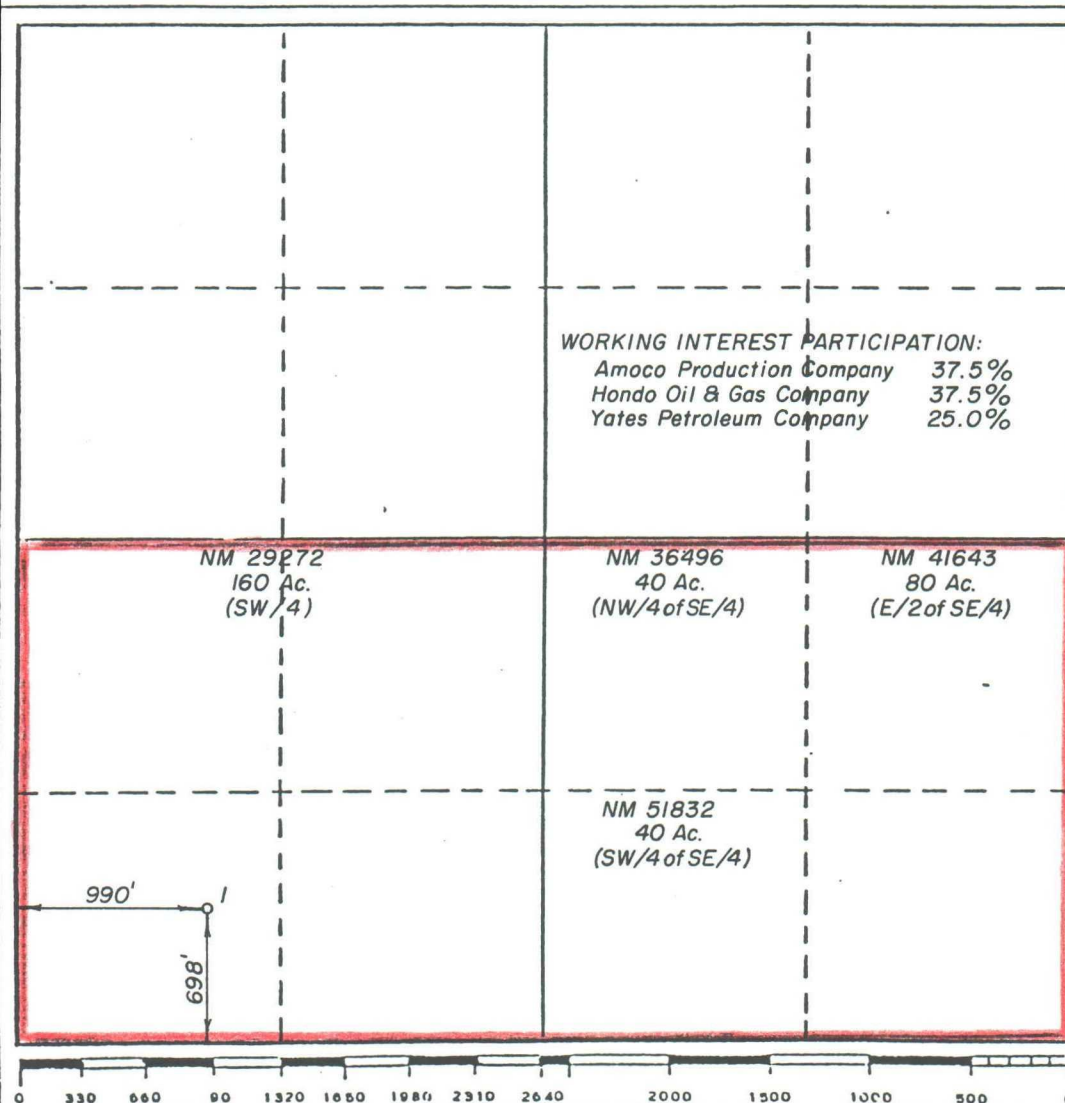
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>Federal "DH" Gas Comm.</b>		Well No. <b>1</b>
Unit Letter <b>M</b>	Section <b>11</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>West</b> line and <b>698</b> feet from the <b>South</b> line					
Ground Level Elev. <b>3546.0</b>	Producing Formation		Pool	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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).
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☒ 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.)

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CERTIFICATION

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Mary L. Corley

Name

Sr. Admin. Analyst

Position

Amoco Production Company

Company

6/30/89

Date

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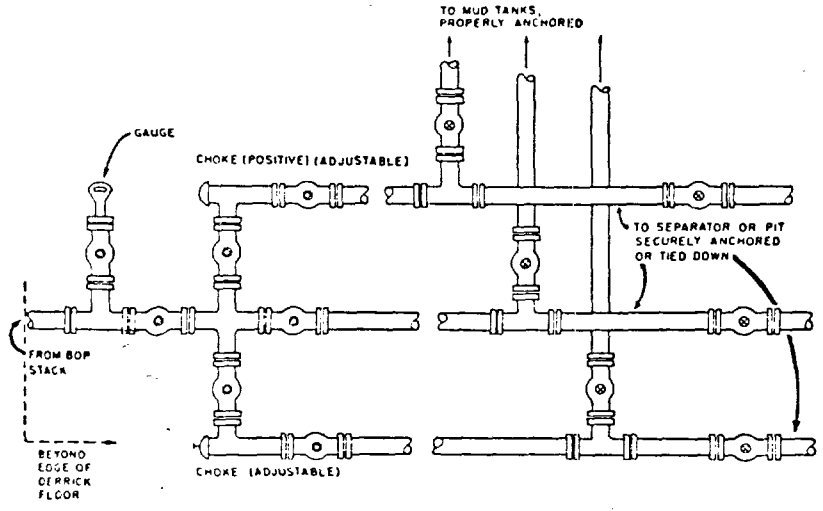
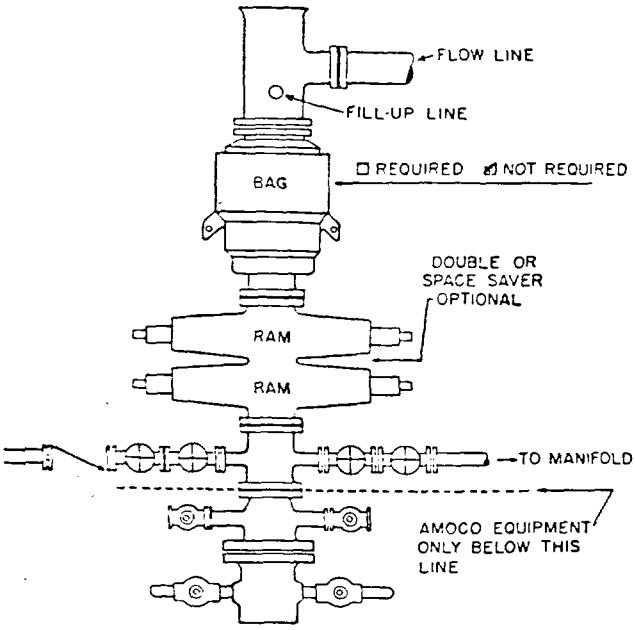
May 10 & 11, 1989

Date Surveyed

JOHN N. WILSON

Registered Land Surveyor

Certificate No. 7475





Amoco Production Company

Diagrammatic Sketch

Well: Federal "D" Gas Com Well No. 1

Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Elevations

KB: 3566'

DF: 3565'

GL: 3546'

Date: \_\_\_\_\_  
(of first completion)

Current Wellbore

5-18-84: Well spudded.  
331 of 20" 52.74#  
CSG cemented with  
3 yards redimix.  
5-26-84: 13 3/8" CSA 500'  
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Open DV tool. Pump 100 bbl of  
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DV TOOL AT 973'

DV TOOL AT 6417'

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Perfs 10774-10792

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Ellenburger

Perf 11645'-11908' (non continuous)

TD 11,915'



Amoco Production Company

## Diagrammatic Sketch

Elevations

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Date: \_\_\_\_\_  
(of first completion)Well: Federal "D" Gas Com Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

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Perf 11645'-11908' (non continuous)

TD 11,915'

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

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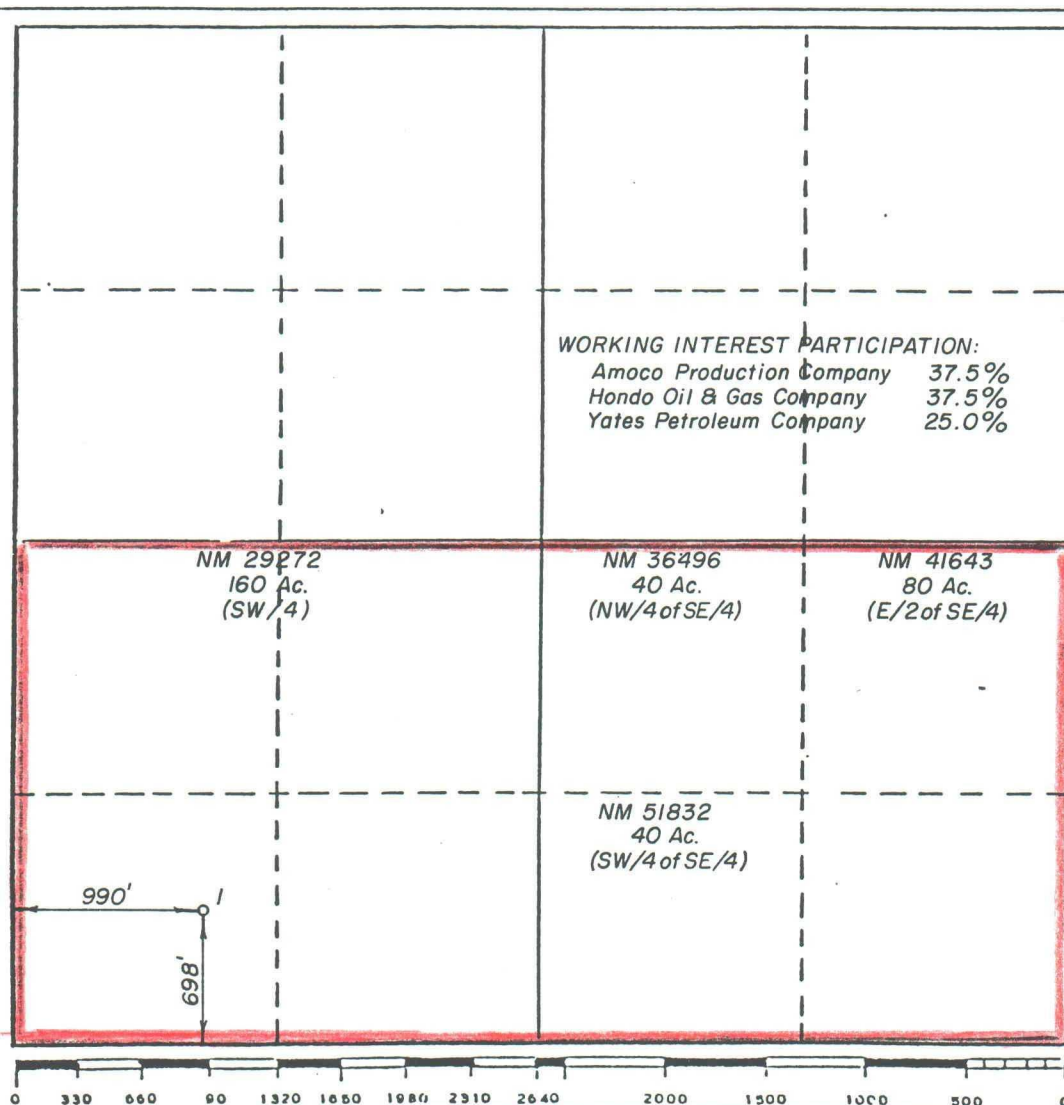
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>Federal "DH" Gas Comm.</b>		Well No. <b>1</b>
Unit Letter <b>M</b>	Section <b>11</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>West</b> line and <b>698</b> feet from the <b>South</b> line					
Ground Level Elev. <b>3546.0</b>	Producing Formation		Pool	Dedicated Acreage: <b>320</b> Acres	

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**CERTIFICATION**

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

Mary L. Corley

Name  
Sr. Admin. Analyst

Position  
Amoco Production Company

Company  
6/30/89

Date

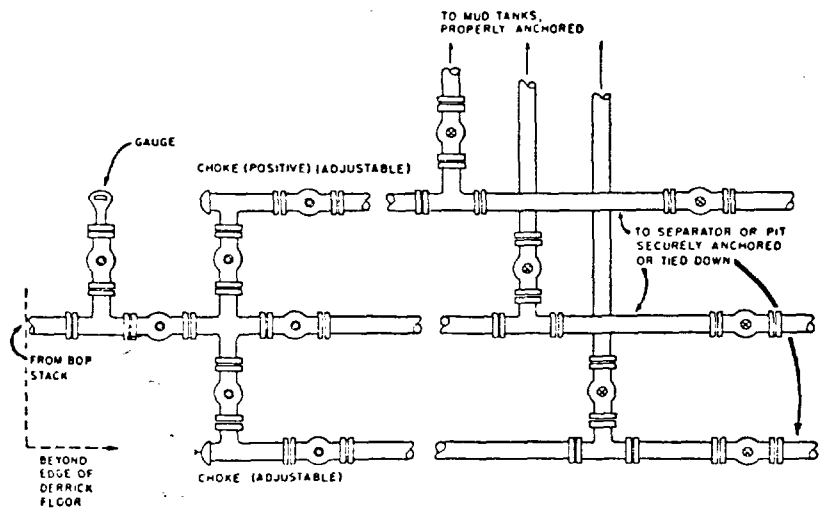
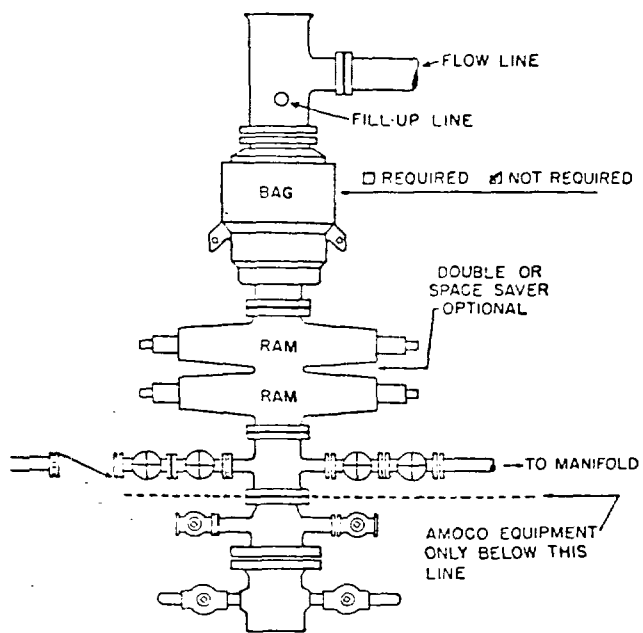
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

May 10 & 11, 1989

Date Surveyed  
JOHN N. WILSON

Registered Land Surveyor

Certificate No. 7475







Amoco Production Company

## Diagrammatic Sketch

Well: Federal "D" Gas Comp Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Elevations

KB: 3566'DF: 3565'GL: 3546'Date: \_\_\_\_\_  
(of first completion)

## Current Wellbore

5-18-84: Well spudded.

331 of 20" 52,74#

CSG cemented with

3 yards redimix.

5-26-84: 1338" CSA 500'

in 17 1/2" hole w/ 700 sx

Class C cement.

6-1-84: 958" CSA 2200' in

12 1/4" hole. DV tool at 973'

Cmt 1st stage with 950 sx

Class C Neqt. Displace cmt

w/ 160 bwr. Circ 199 sx to pit.

Open DV tool. Pmp 100 bbl of

14.4 mud and 450 sx Class C cmt

with 2% calcium chloride. Circ

106 sx cmt. Disp w/ 73 bfw.

8-4-84: 5 1/2" CSA 11915' in 7 7/8"

hole. DV tool at 6417'.

Cmt 1st stage with 420 sx

Class H Lite with additives

and with 900 sx Class H with

additives. Open DV tool and

circ 73 sx. Cmt 2nd stage

with 1,000 sx Class H with

additives and with 400 sx

Class H Neqt. Circ 218 sx to pit.

DV TOOL AT 973'

DV TOOL AT 6417'

Strawn

Perfs 9295'-9308'

CIBP @ 10700' Cap w/ 35' CMT

Silurian

Perfs 10774-10792

CIBP @ 11610' Cap w/ 35' CMT

Ellenburger

Perf 11645'-11908' (non continuous)

TD 11,915'



Amoco Production Company

Diagrammatic Sketch

Well: Federal "D" Gas Comp Well No. 1

Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Elevations

KB: 3566'

DF: 3565'

GL: 3546'

Date: \_\_\_\_\_  
(of first completion)

Proposed Wellbore

5-18-84: Well spudded.  
331' of 20" 52.74#  
CSG cemented with  
3 yards redimix.

5-26-84: 13 3/8" CSA 500'  
in 17 1/2" hole w/ 700 sx  
Class C cement.

6-1-84: 9 5/8" CSA 2200' in  
12 1/4" hole, DV tool at 973'.  
Cmt 1st stage with 950 sx  
Class C Neat. Displace cmt  
w/ 160 bbl. Circ 199 sx to pit.  
Open DV tool. Pump 100 bbl of  
14.4 mud and 450 sx Class C cmt  
with 2% calcium chloride. Circ  
106 sx cmt. Disp w/ 773 bfw.

8-4-84: 5 1/2" CSA 11915' in 7 3/8"  
hole. DV tool at 6417'.  
Cmt 1st stage with 420 sx  
Class H Lite with additives  
and with 900 sx Class H with  
additives. Open DV tool and  
circ 73 sx. Cmt 2nd stage  
with 1,000 sx Class H with  
additives and with 400 sx  
Class H Neat. Circ 218 sx to pit.

DV TOOL AT 973'

DV TOOL AT 6417'

Strawn

Perfs 9295'-9308'

Morrow

Perfs 9834'-9846'

CIBP @ 10700' Cap w/ 35' CMT

Silurian

Perfs 10774'-10792'

CIBP @ 11610' Cap w/ 35' CMT

Ellenburger

Perf 11645'-11908' (noncontinuous)

TD 11,915'



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

August 3, 1989

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

Amoco Production Company  
P. O. Box 3092  
Houston, Texas 77253

*Case 9747*

Attention: James F. Trickett

Dear Mr. Trickett:

I have received and reviewed your recent application to commingle the production from the Scoggins Draw Strawn and Scoggins Draw Morrow Gas Pools within the wellbore of your Federal DH Gas Com Well No. 1 located in Section 11, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, and have determined that the subject application does not qualify for administrative approval pursuant to the requirements set forth in Rule 303(C)(1)(b), specifically, the pressure requirements. I have taken the liberty of setting the application to hearing on the Examiner Docket set for September 6, 1989. Please advise this office if you do not wish to pursue the matter at a hearing or if you need additional time to prepare for the hearing.

If you should have any questions please contact myself at (505) 837-5800.

Sincerely,

A handwritten signature in cursive script that reads "David Catanach".

David Catanach  
Engineer

xc: Case File