

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-077384
2. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. NAME OF OPERATOR AMCOO PRODUCTION COMPANY		7. UNIT AGREEMENT NAME
4. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401		8. FARM OR LEASE NAME Basin Dakota N. GALT "H"
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1740' FNL and 790' FWL, Section 1, T27N, R10W At proposed prod. zone Same		9. WELL NO. 1E
10. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7-1/2 Miles South of Blanco, New Mexico		10. FIELD AND POOL, OR WILDCAT Basin Dakota
11. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 790'		11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA SW/4 NW/4 Section 1, T27N, R10W
12. NO. OF ACRES IN LEASE 2103.35		12. COUNTY OR PARISH San Juan
13. PROPOSED DEPTH 6599'		13. STATE New Mexico
14. ELEVATIONS (Show whether DP, RT, GR, etc.) 6033' GL		14. ROTARY OR CABLE TOOLS Rotary
15. APPROX. DATE WORK WILL START* As soon as permitted		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" (New)	24# K-55	300'	300 sx Class E x 2# CaCl2-Circ
7-7/8"	4-1/2" (New)	10.5# K-55	6599'	1st Stage- 320 sx CI 5 50:50 Poz 2nd Stage- 920 sx { x 6# gel, 2# med tuf plug/sx., 8# FLA x 100 sx CI B Neat (Tail in) Circ

This application to drill an infill Basin Dakota is pursuant to Order No. R-1670-V approved by the NMCC on May 22, 1972. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

DV Tool set at 4800'

The gas from this well is dedicated to Southern Union Gas Company.

This action is subject to administrative appeal pursuant to 30 CFR 290.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

1. If the proposed well is to be drilled or deepened, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program if applicable.

Original Signed By

SIGNED W. L. PUGH

TITLE District Engineer

DATE November 12, 1980

(This space is for the use of the State or BLM)

APPROVED
AS AMENDED

APPROVED BY

DATE

DEC 6 1980
Bureau of Land Management
for S. F. SIMS
DISTRICT ENGINEER

oh 3 m

NMOCC



SUPPLEMENTAL INFORMATION TO FORM 9-331C

MADELEINE N. GALT "H" NO. 1E
1740' FNL & 790' FWL, SECTION 1-T27N-R10W
SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	912 '	+5134 '
Kircland	1143 '	+4903 '
Fruitland	1731 '	+4315 '
Pictured Cliffs	1960 '	+4086 '
Chacra (if present)	3075 '	+2971 '
Mesaverde	Cliff House	3521 '
	Point Lookout	4282 '
		+1764 '
Gallup	5483 '	+ 563 '
Dakota	6321 '	- 275 '
TD	6599 '	- 553 '

Estimated KB elevation: 6046 '

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

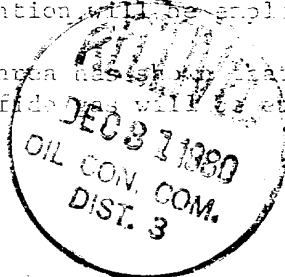
Dual Induction-GR
CNL-FDC-GR

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has not encountered no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.



OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

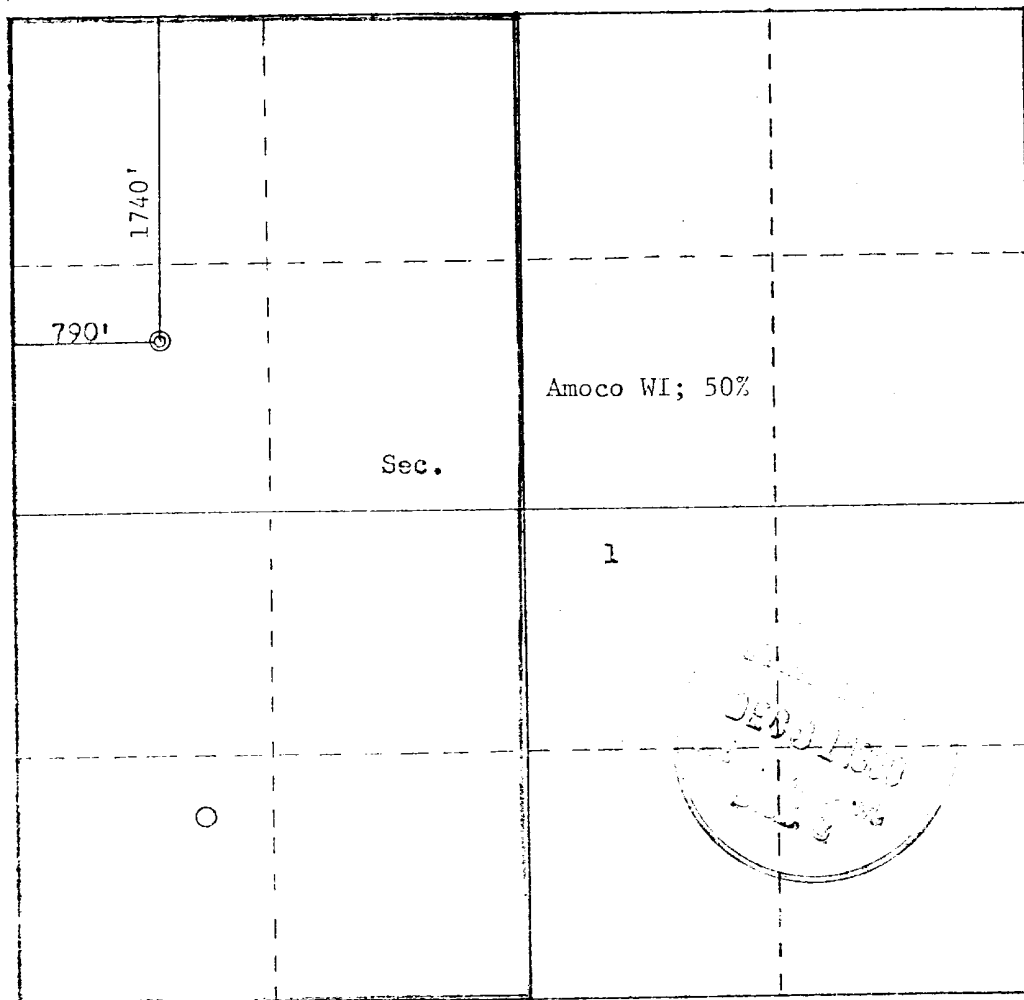
Operator AMOCO PRODUCTION COMPANY			Lease MADELEINE N. GALT "H"		Well No. 1E
Unit Letter E	Section 1	Township 27N	Range 10W	County San Juan	
Actual Footage Location of Well: 1740 feet from the North line and 790 feet from the West line					
Ground Level Elev: 6033	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320.90 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 Commission.



Scale: 1"=1000'

CERTIFICATION

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

Name

R.A. DOWNEY

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

SEPTEMBER 4, 1980

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

Date Surveyed

September 2, 1980

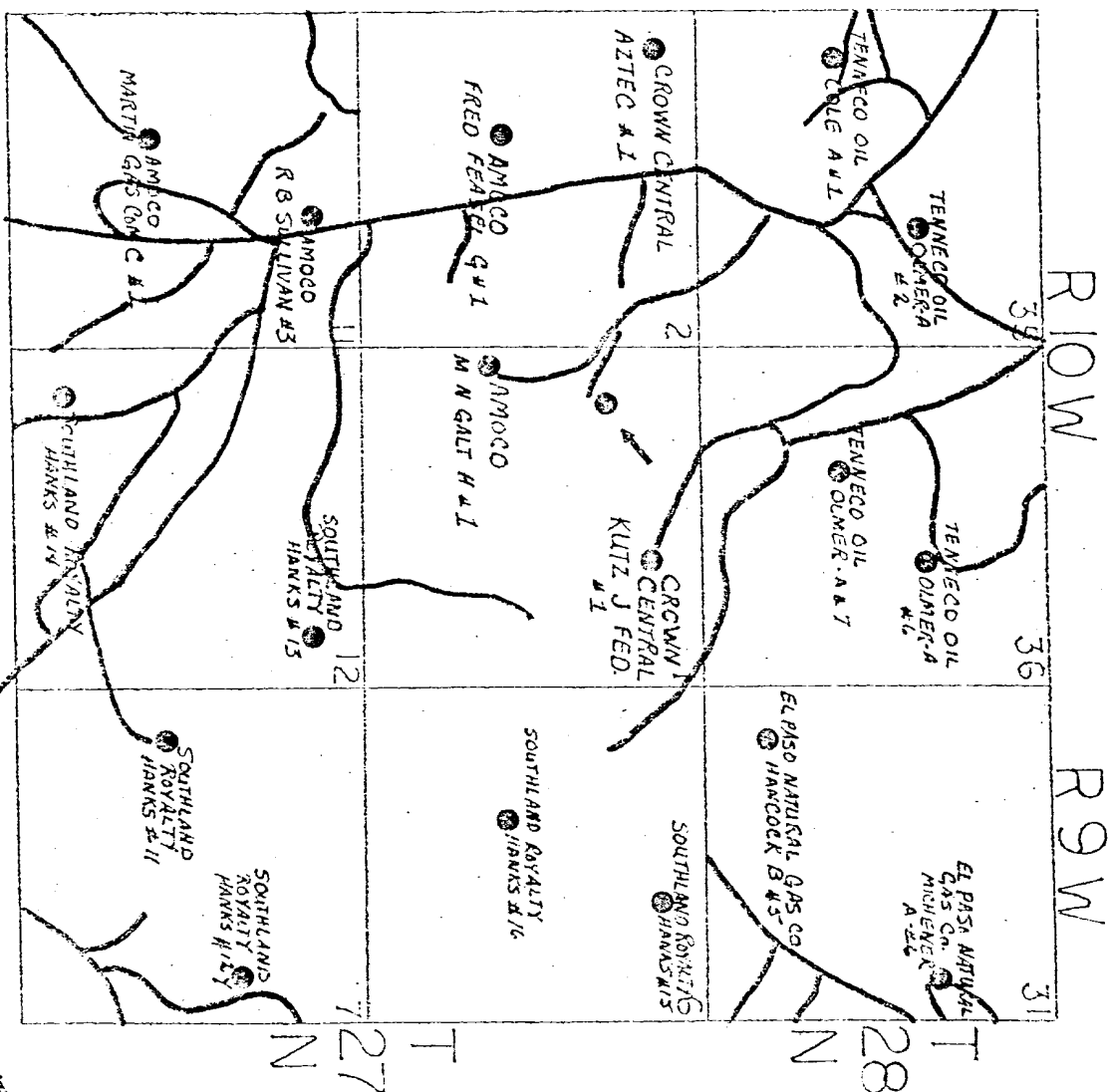
Registered Professional Engineer
and Land Surveyor

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

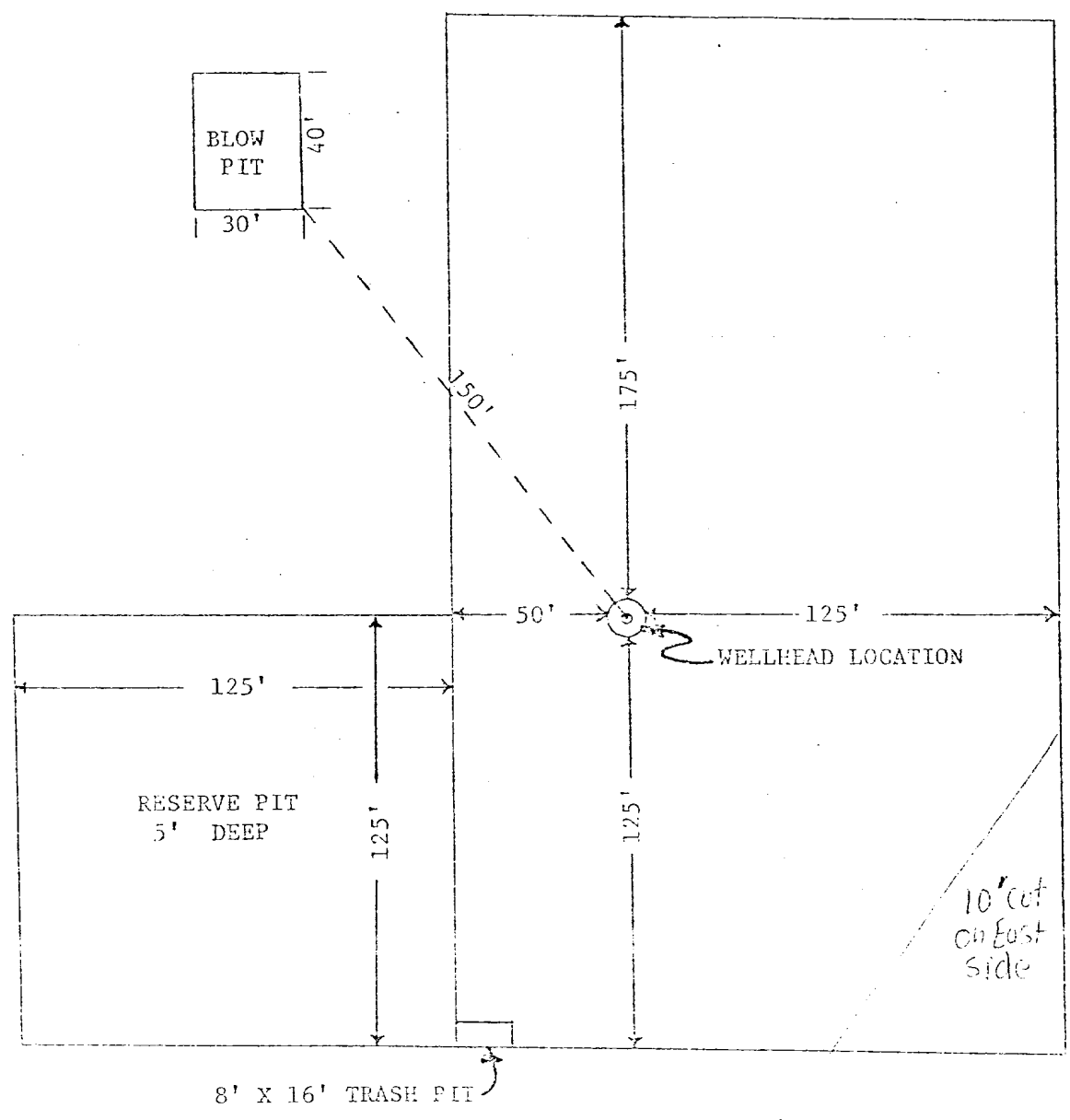
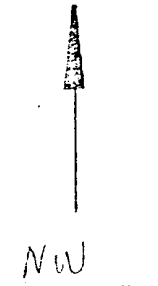
Certificate No.

3950

MADELINE N. GALT "H" #1E



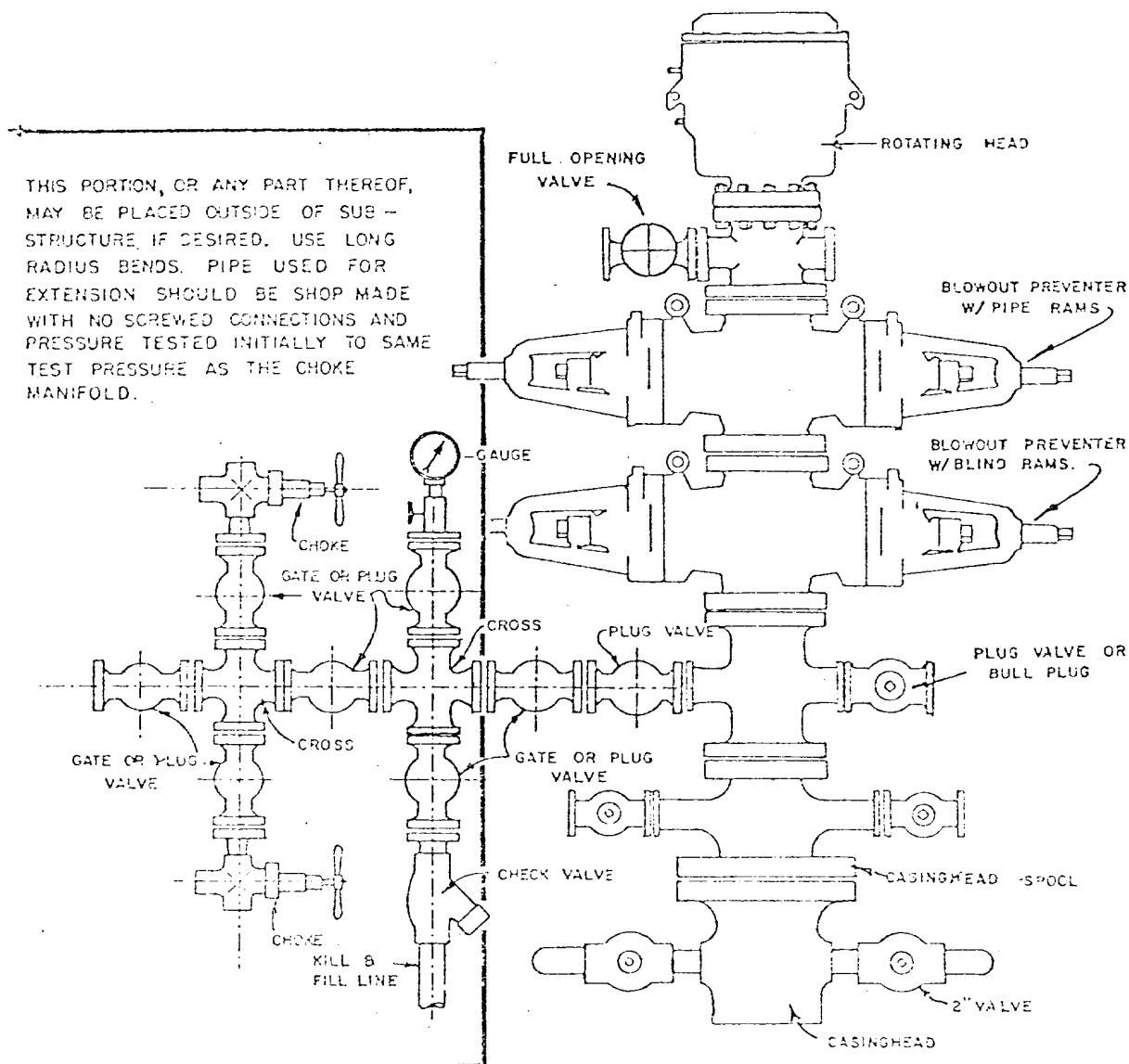
ROADS



APPROXIMATELY 1.2 ACRES

Arnoco Production Company		SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS		
		DWG. NO.

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



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1959

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

MULTI-POINT SURFACE USE PLAN

MADELEINE N. GALT "H" NO. 1E
1740' FNL & 790' FWL, SECTION 1, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
 2. It will not be necessary to build any access road.
 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
 4. There is a 380-barrel tank and facilities located at Madeleine N. Galt "G" No. 1 (E-1-27N-10W).
 5. Water will be hauled from the San Juan River.
 6. No construction materials will be hauled in for this location.
 7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
 8. There are neither airstrips nor camps in the vicinity.
 9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 10-foot cut will be made on east side.
 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
 11. The general topography is a flat terrain, with a sandy loam soil; vegetation consists of juniper and native grasses.
- Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8341; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date NOVEMBER 12, 1980

R. W. Schroeder
R. W. Schroeder, District Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-045-24755
5. LEASE DESIGNATION AND SERIAL NO.
SF-077384

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

~~W. L. GALT~~ N. GALT "H"

9. WELL NO.

1E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLM.
AND SURVEY OR AREA

SW/4 NW/4

Section 1, T27N, R10W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

2. TYPE OF WELL

OIL ☐GAS ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

3. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

4. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

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

At surface 1740' ENL and 790' FWL, Section 1, T27N, R10W

At proposed prod. zone

Same

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

7-1/2 Miles South of Blanco, New Mexico

7. DISTANCE FROM PROPOSED

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

790'

8. NO. OF ACRES IN LEASE

2108.35

9. NO. OF ACRES ASSIGNED

TO THIS WELL

w/ 320.90

10. DISTANCE FROM PROPOSED LOCATION*

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

2600'

11. PROPOSED DEPTH

6599'

12. ROTARY OR CABLE TOOLS

Rotary

13. ELEVATIONS (Show whether DP, RT, GR, etc.)

6033' GL

14. APPROX. DATE WORK WILL START*

As soon as permitted

25. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF TOOL	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" (New)	24# K-55	300'	300 sx Class B x 2% CaCl2-Circ
7-7/8"	4-1/2" (New)	10.5# K-55	6599'	1st Stage- 320 sx (CI B 50:50 Poz 2nd Stage- 920 sx { x 6% gel, 2# med tuf plug/sx., 8% FLA x 100 sx CI B Neat (Tail in) Circ

This application to drill an infill Basin Dakota is pursuant to Order No. R-1670-V approved by the NMCC on May 22, 1972. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

DV Tool set at 4800'

The gas from this well is dedicated to Southern Union Gas Company.

This action is subject to administrative appeal pursuant to 30 CFR 290.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

16. ABOVE SPACE RESERVING 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 prevention program, if any.

26.

Original Signed By

SIGNED

W. L. Peterson

TITLE

District

DATE November 12, 1980

(THIS space is for use by the State or the user)

APPROVED
AS AMENDEDAPPROVED BY
DATEDEC 3 1980
Bence Warming
for JAMES F. SIMS
DISTRICT ENGINEER

NMOCC



SUPPLEMENTAL INFORMATION TO FORM 9-331C

MADELEINE N. GALT "H" NO. 1E
1740' FNL & 790' FWL, SECTION 1-T27N-R10W
SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	912 '	+5134 '
Kirceland	1143 '	+4903 '
Fruitland	1731 '	+4315 '
Pictured Cliffs	1960 '	+4086 '
Chacra (if present)	3075 '	+2971 '
Mesaverde	[Cliff House	3521 '
	[Point Lookout	4282 '
		+2525 '
		+1764 '
Gallup	5483 '	+ 563 '
Dakota	6321 '	- 275 '
TD	6599 '	- 553 '

Estimated KB elevation: 6046 '

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

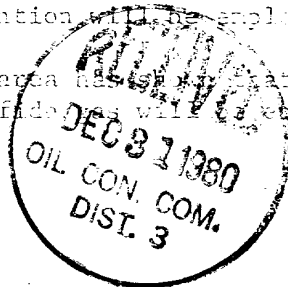
Dual Induction-GR
CNL-FDC-GR

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has not met with abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.



OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

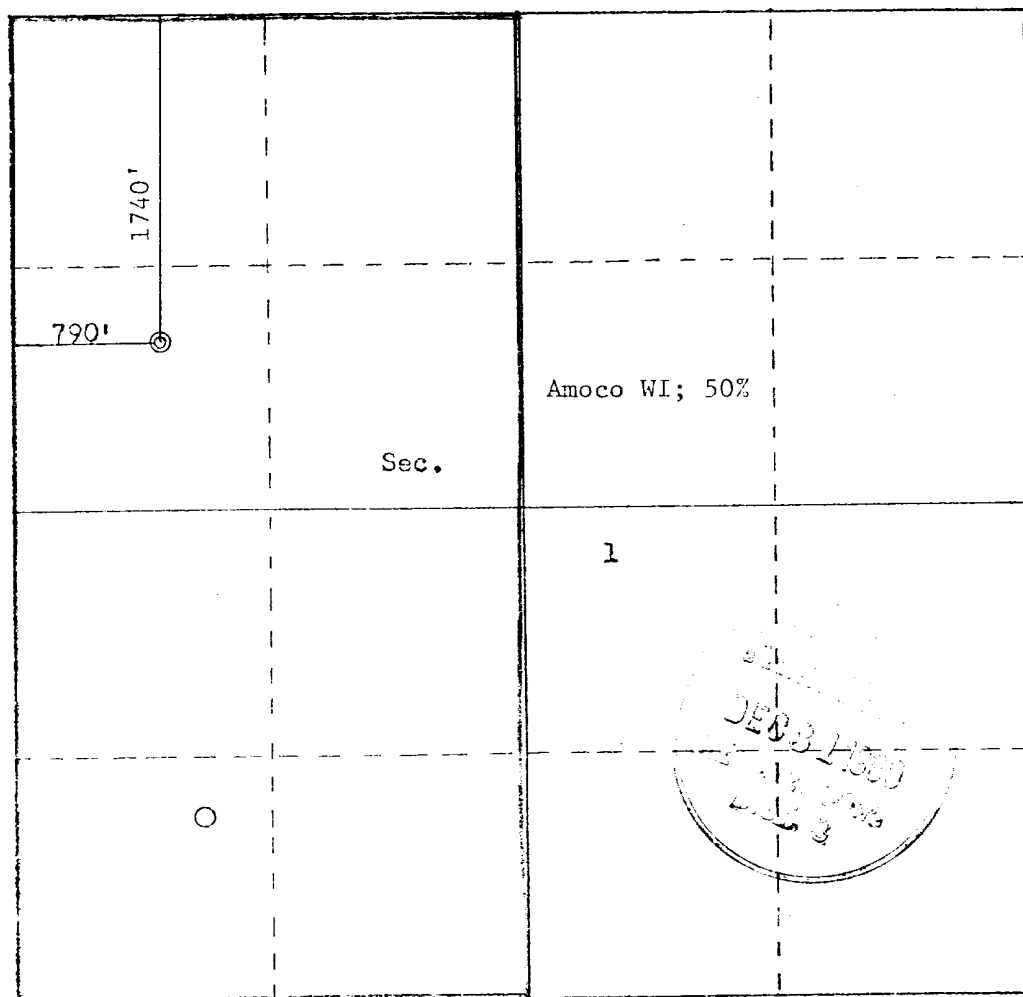
Operator AMOCO PRODUCTION COMPANY			Lease MADELEINE N. GALT "H"		Well No. 1E
Unit Letter E	Section 1	Township 27N	Range 10W	County San Juan	
Actual Footage Location of Well: 1740 feet from the North line and 790 feet from the West line					
Ground Level Elev: 6033	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320.90 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.



Scale: 1"=1000'

CERTIFICATION

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

R.A. Downey

Name

R.A. DOWNEY

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

SEPTEMBER 4, 1980

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

Date Surveyed

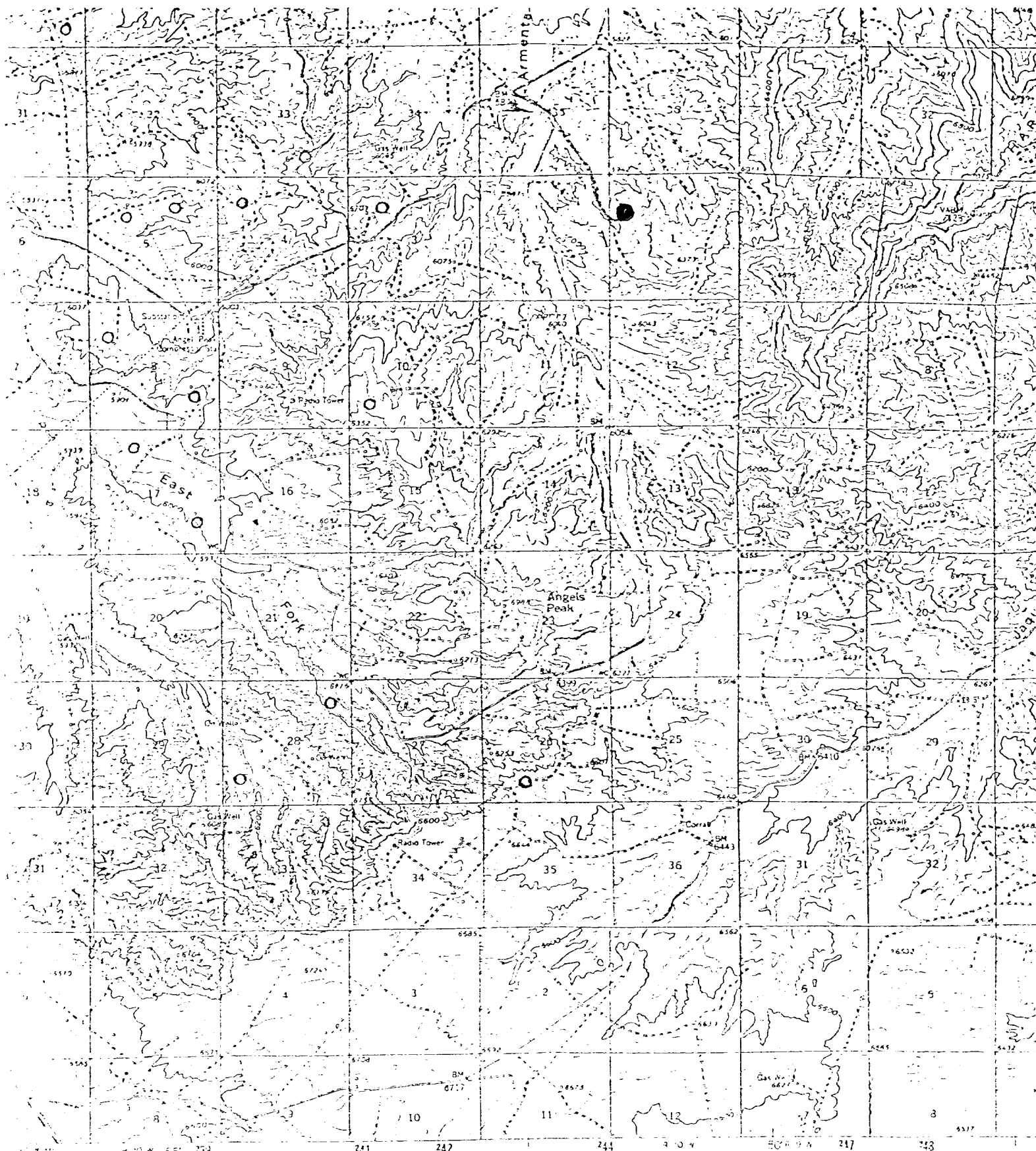
September 2, 1980

Registered Professional Engineer and Land Surveyor

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

Certificate No.

3950



Vicinity Map for
 AMOCO PRODUCTION CO. #1E MADELEINE N. GALT "H"
 1740'FWL 790'FWL Sec. 1-T27N-R10W
 SAN JUAN COUNTY, NEW MEXICO

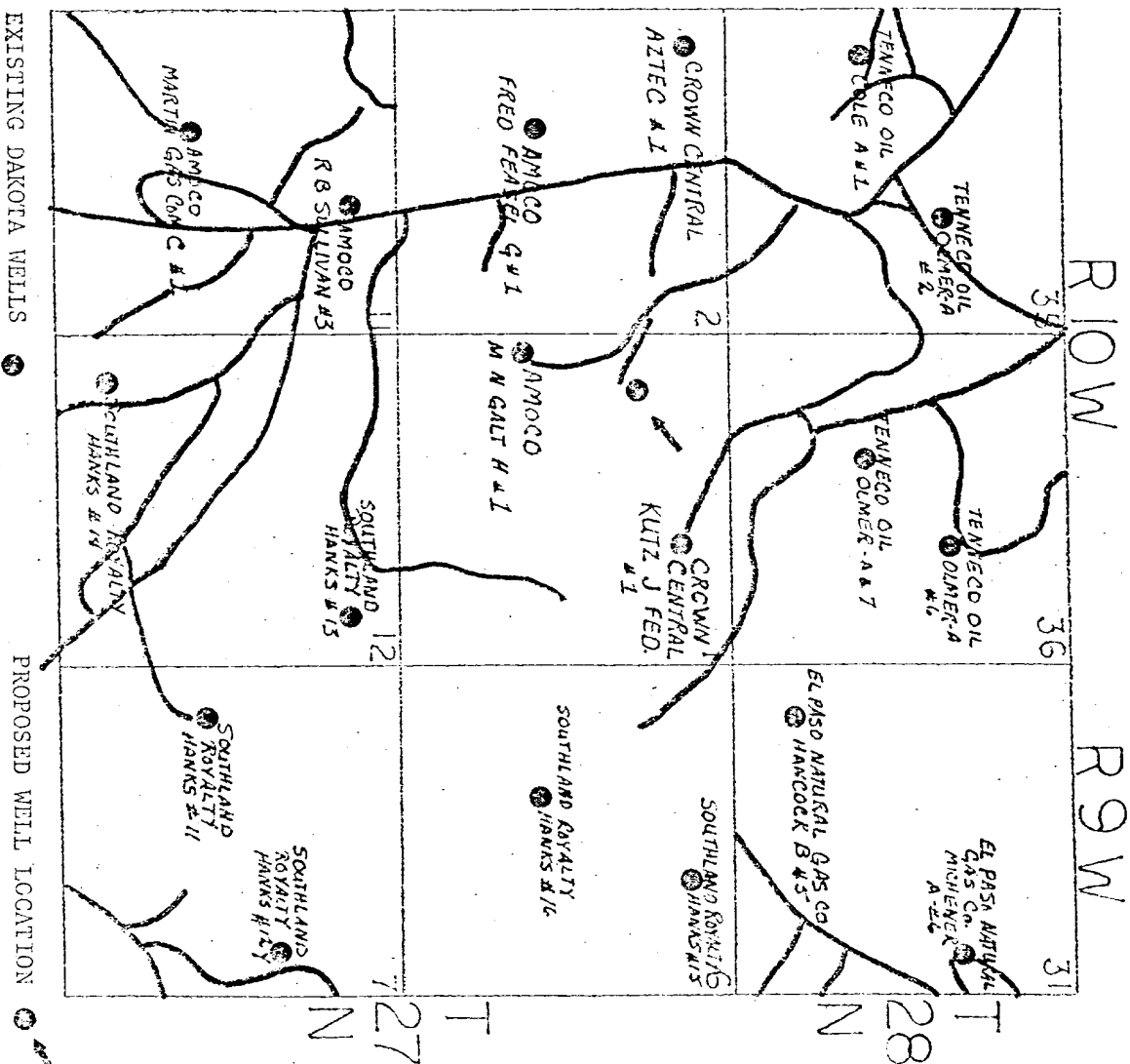
UNITED STATES GEOLOGICAL SURVEY

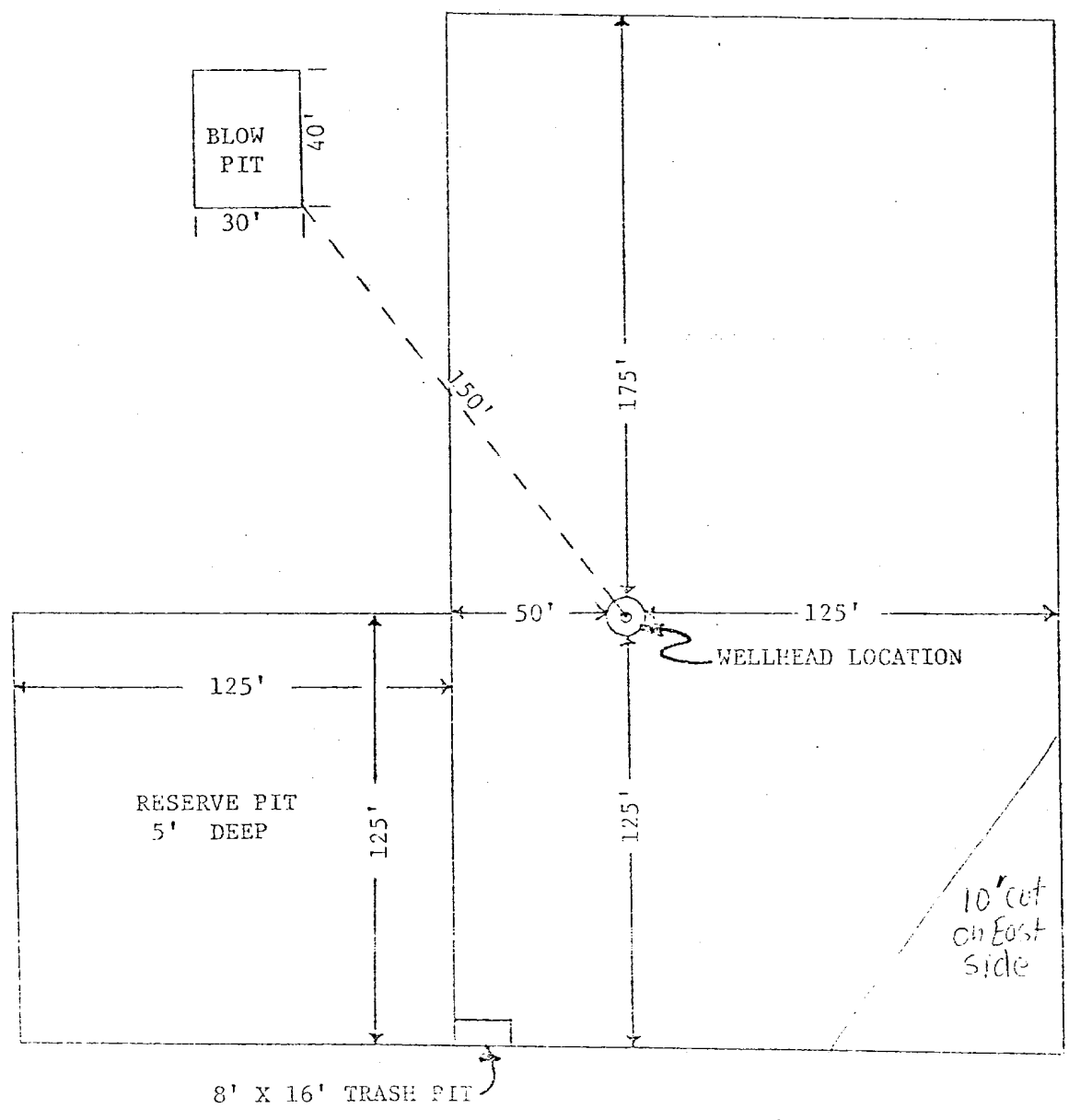
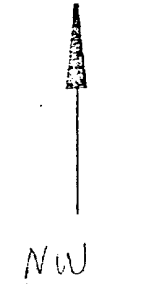
NEW MEXICO

THIS MAP COMPILED FROM NATIONAL MAP AT 1:50,000 SCALE

THE UNITED STATES GEOLOGICAL SURVEY IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS MAP

MADELINE N. GALT "H" #1E

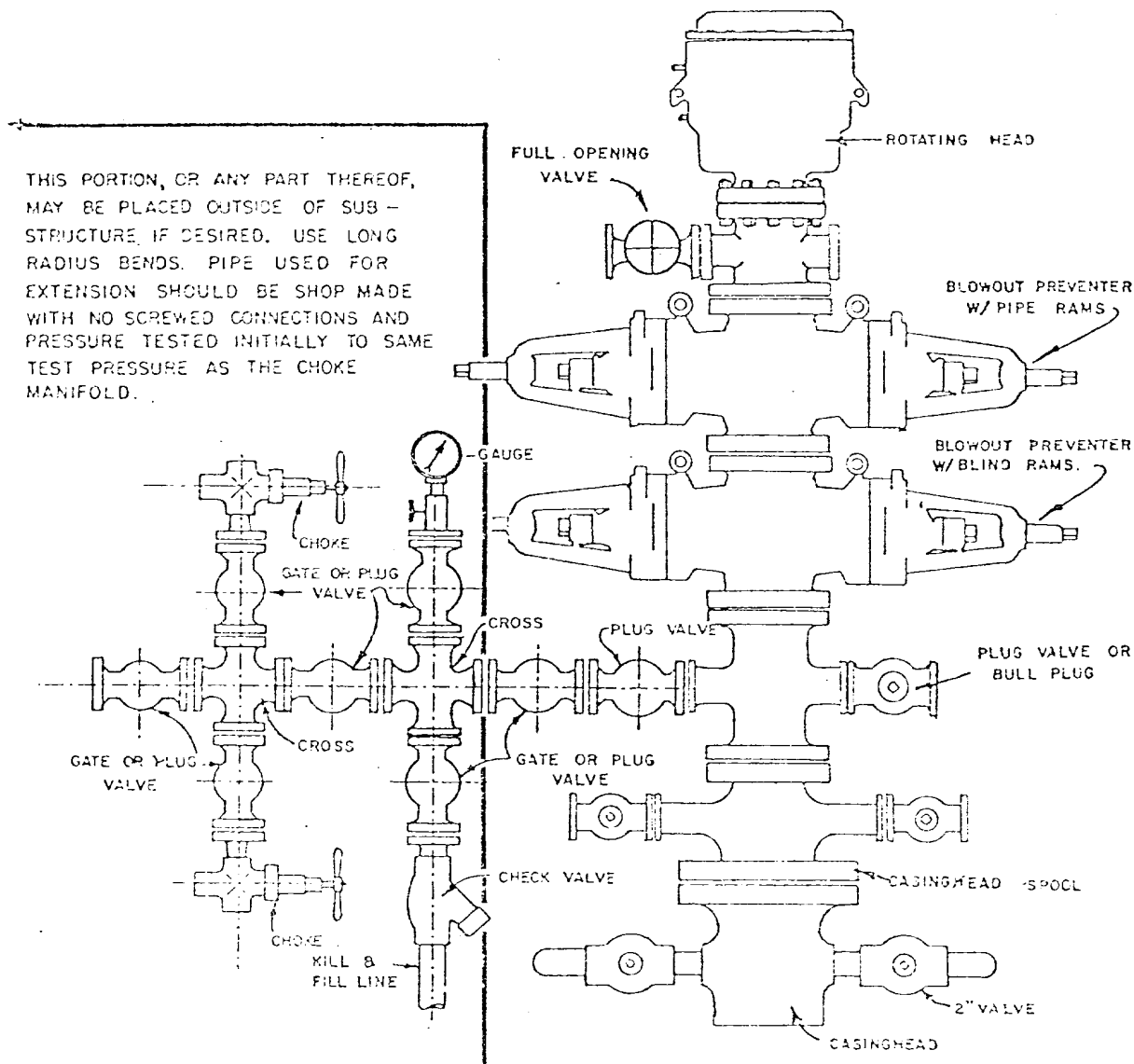




APPROXIMATELY 1.2 ACRES

Amoco Production Company DRILLING LOCATION SPECIFICATIONS	SCALE: 1"=50'
	DWG. NO.

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



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1969

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

MULTI-POINT SURFACE USE PLAN

MADELEINE N. GALT "H" NO. 1E
1740' FNL & 790' FWL, SECTION 1, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
 2. It will not be necessary to build any access road.
 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
 4. There is a 350-barrel tank and facilities located at Madeleine N. Galt "G" No. 1 (E-1-27N-10W).
 5. Water will be hauled from the San Juan River.
 6. No construction materials will be hauled in for this location.
 7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
 8. There are neither airstrips nor camps in the vicinity.
 9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 10-foot cut will be made on east side.
 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
 11. The general topography is a flat terrain, with a sandy loam soil; vegetation consists of juniper and native grasses.
- Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8341; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date NOVEMBER 12, 1980


R. W. Schroeder, District Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

501 Airport Drive, Farmington, NM 87401

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

At surface

1740' FNL and 790' FWL, Section 1, T27N, R10W

At proposed prod. zone

Same

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

7-1/2 Miles South of Blanco, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest diriz. unit line, if any)

790'

16. NO. OF ACRES IN LEASE

2108.35

18. DISTANCE FROM PROPOSED LOCATION*

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

2600'

19. PROPOSED DEPTH

6599'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

w/ 320.90

20. ROTARY OR CABLE TOOLS

Rotary

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

6033' GL

22. APPROX. DATE WORK WILL START*

As soon as permitted

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" (New)	24# K-55	300'	300 sx Class B x 2% CaCl2-Circ
7-7/8"	4-1/2" (New)	10.5# K-55	6599'	1st Stage- 320 sx (CI B 50:50 Poz
				2nd Stage- 920 sx {x 6% gel, 2# med
				tuf plug/sx., 8%
				FLA x 100 sx CI
				B Neat (Tail in)
				Circ

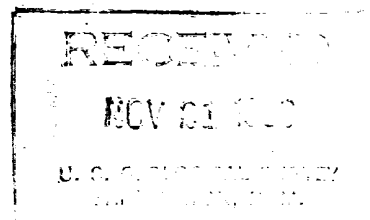
This application to drill an infill Basin Dakota is pursuant to Order No. R-1670-V approved by the NMOC on May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

DV Tool set at 4800'

The gas from this well is dedicated to Southern Union Gas Company.

This action is subject to administrative appeal pursuant to 30 CFR 290.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"



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 prevention program, if any.

24.

Original Signed By

SIGNED

W. L. Peterson

TITLE

District Engineer

DATE

November 12, 1980

(This space for Federal or State office use)

PLANNED BY

APPROVED
AS AMENDED

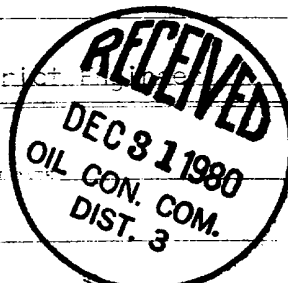
APPROVAL

APPROVED BY
CONDITIONSDEC 30 1980
James F. Sims
DISTRICT ENGINEER

TITLE

DATE

NMOC



SUPPLEMENTAL INFORMATION TO FORM 9-331C

MADELEINE N. GALT "H" NO. 1E
1740' FNL & 790' FWL, SECTION 1-T27N-R10W
SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	912 '	+5134 '
Kirtland	1143 '	+4903 '
Fruitland	1731 '	+4315 '
Pictured Cliffs	1960 '	+4086 '
Chacra (if present)	3075 '	+2971 '
Mesaverde [Cliff House	3521 '	+2525 '
[Point Lookout	4282 '	+1764 '
Gallup	5483 '	+ 563 '
Dakota	6321 '	- 275 '
TD	6599 '	- 553 '

Estimated KB elevation: 6046 '

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

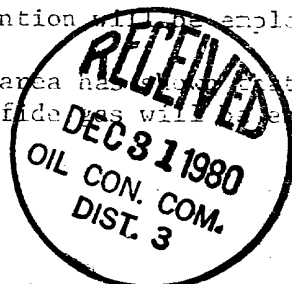
Dual Induction-GR
CNL-FDC-GR

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has not encountered no abnormal pressures, temperatures, nor hydrogen sulfides will be countered.



OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

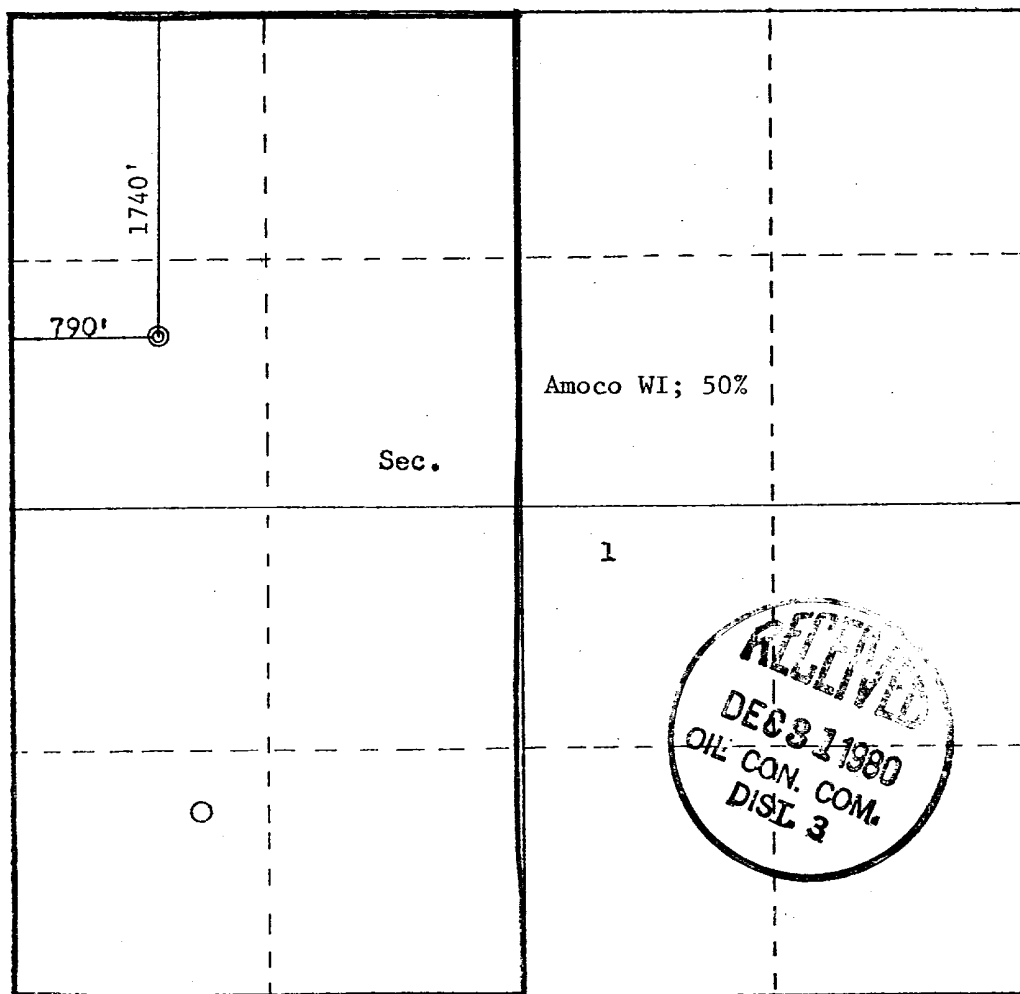
Operator AMOCO PRODUCTION COMPANY			Lease MADELEINE N. GALT "H"		Well No. 1E
Unit Letter E	Section 1	Township 27N	Range 10W	County San Juan	
Actual Footage Location of Well: 1740 feet from the North line and 790 feet from the West line					
Ground Level Elev. 6033	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 320.90 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.



Scale: 1"=1000'

CERTIFICATION

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

R. A. Downey
Name

R.A. DOWNEY

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

SEPTEMBER 4, 1980

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

Date Surveyed

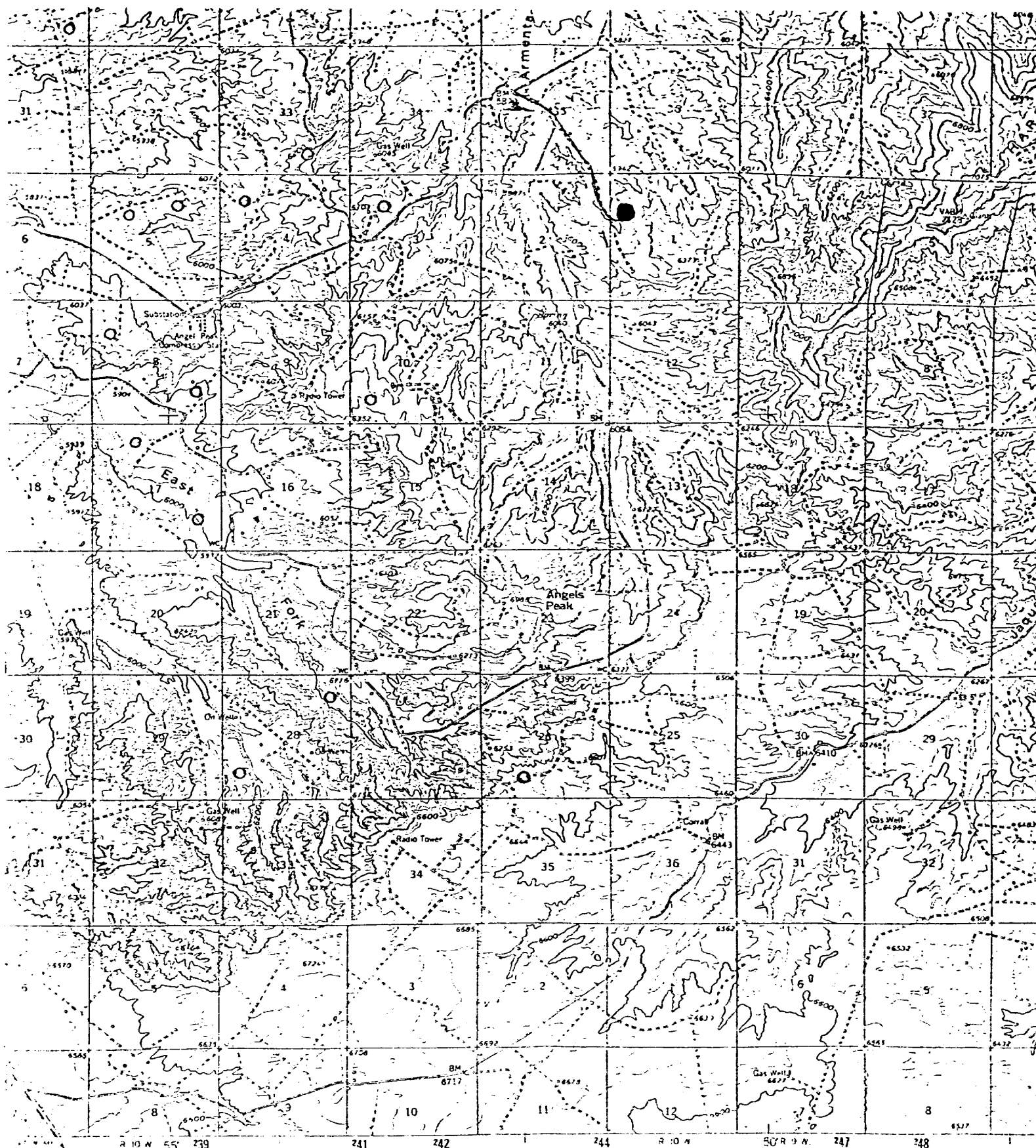
September 2, 1980

Registered Professional Engineer
and Land Surveyor

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

Certificate No.

3950

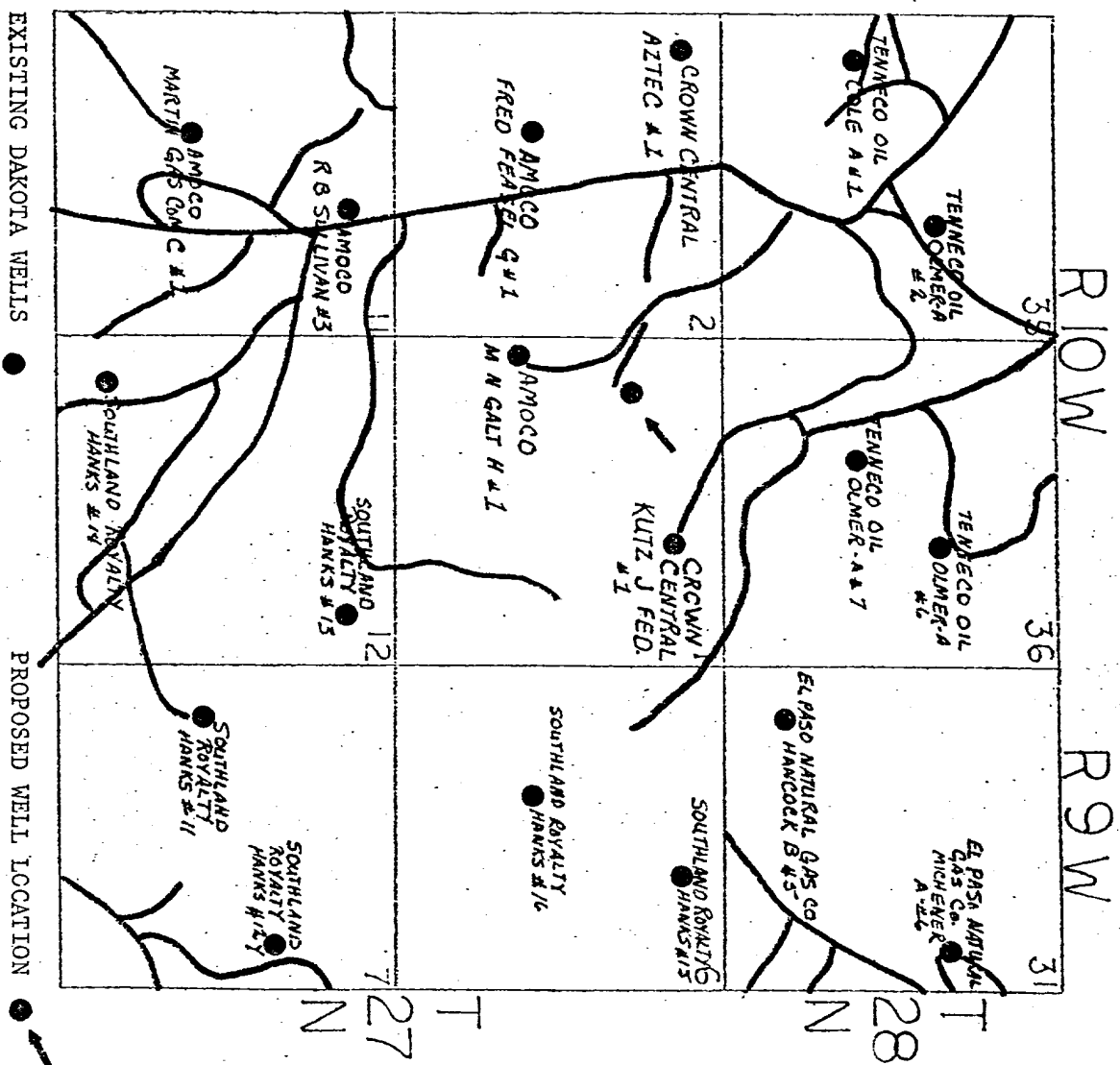


Vicinity Map for
 AMOCO PRODUCTION CO. #1E MADELEINE N. GALT "H"
 1740'FNL 790'FWL Sec. 1-T27N-R10W
 SAN JUAN COUNTY, NEW MEXICO

UNITS IN FEET SEA LEVEL

NEW MEXICO

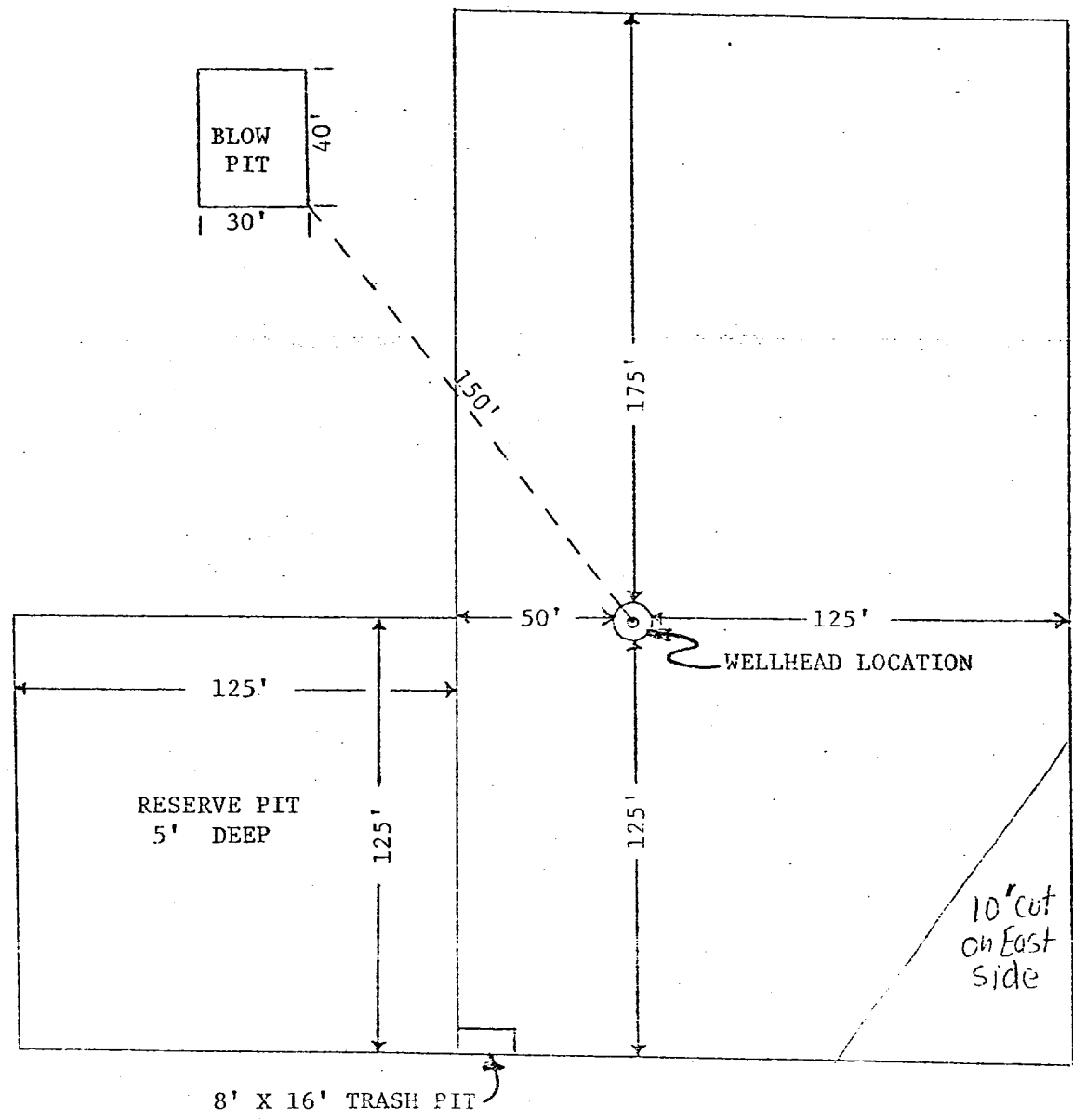
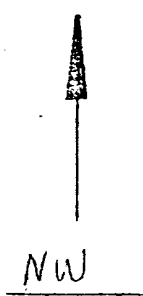
MADELINE N. GALT "H" #1E



ROADS

EXISTING DAKOTA WELLS

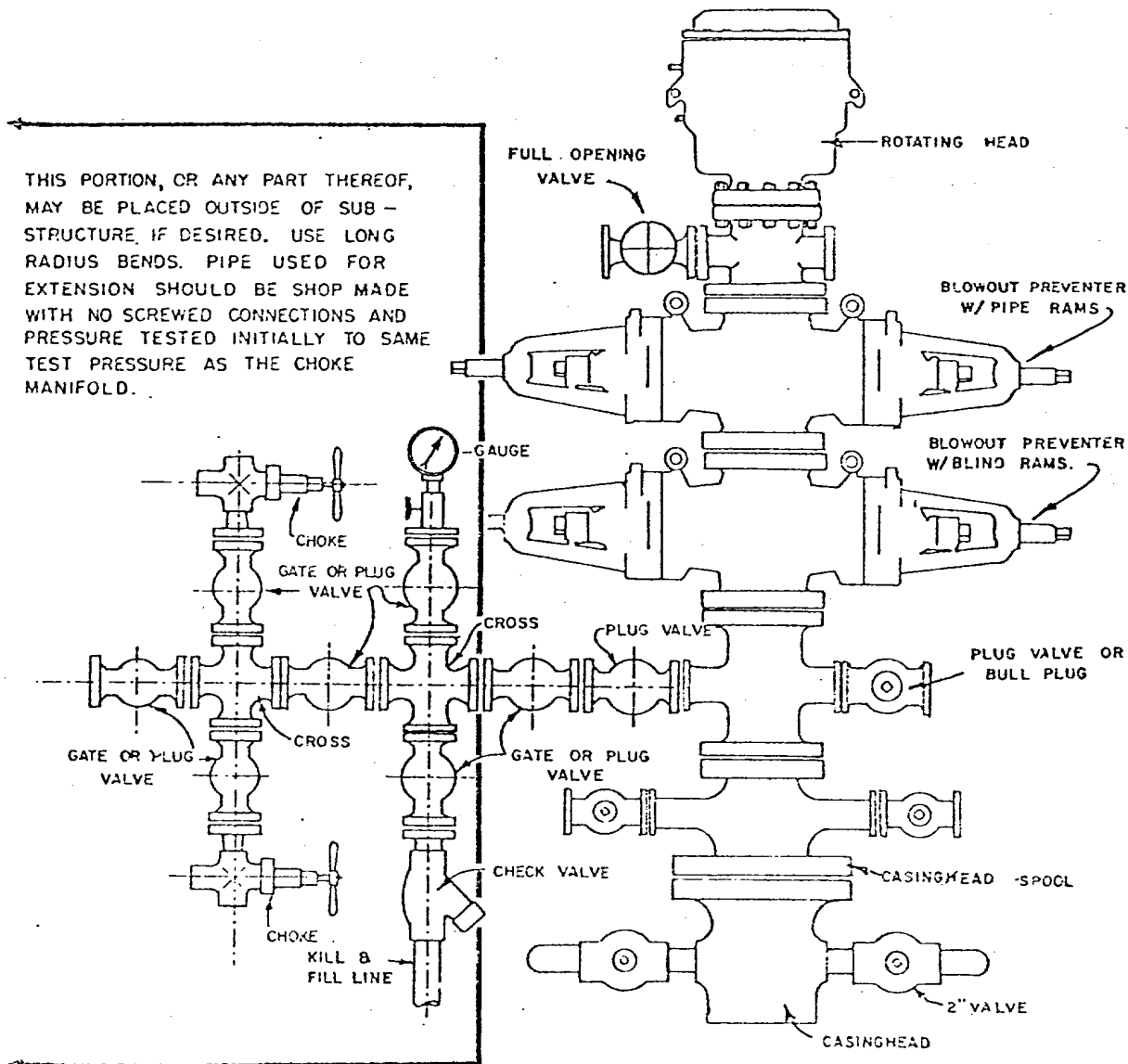
PROPOSED WELL LOCATION



APPROXIMATELY 1.2 ACRES

Amoco Production Company		SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS		
		DRG. NO.

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



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1969

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

MULTI-POINT SURFACE USE PLAN

MADELEINE N. GALT "H" NO. 1E
1740' FNL & 790' FWL, SECTION 1, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build any access road.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There is a 380-barrel tank and facilities located at Madeleine N. Galt "G" No. 1 (E-1-27N-10W).
5. Water will be hauled from the San Juan River.
6. No construction materials will be hauled in for this location.
7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 10-foot cut will be made on east side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography is a flat terrain, with a sandy loam soil; vegetation consists of juniper and native grasses.

Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date NOVEMBER 12, 1980

R. W. Schroeder
R. W. Schroeder, District Superintendent