

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-25615

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, New Mexico 87401

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

At surface

1690' FNL x 980' FWL

At proposed prod. zone Same

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

Approx. 3.8 miles southeast of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*

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

980'

16. NO. OF ACRES IN LEASE

1343.85

18. DISTANCE FROM PROPOSED LOCATION*

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

1750'

19. PROPOSED DEPTH

6760'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

W/320

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5926' GL
DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED22. APPROX. DATE WORK WILL START*
As soon as permitted

23. "GENERAL REQUIREMENTS" FOR CEMENTING PROGRAM

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

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/2"	8-5/8"	24.0# K-55	300'	350 cu. ft. Class B x 2% CaCl ₂
7-7/8"	4-1/2"	10.5# K-55	6760'	924 cu. ft. Class B, 50:50 POZ 2# med tuf plug/sx, .8% FLA tail-in x 118 cu. ft. Class B neat.

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

Gas produced from this well is dedicated to Southern Union Gas Company under Contract No. 40797.

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

TITLE

District Engineer

DATE

1-25-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY

APPROVED
AS AMENDEDMAR 14 1983
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

NMCCC

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

Operator AMOCO PRODUCTION COMPANY			Lease J. F. DAY "E"		Well No. 1E
Unit Letter E	Section 17	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well: 1690 feet from the North line and 980 feet from the West line					
Ground Level Elev. 5926	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 _____

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	D. H. SHOEMAKER
Position	DISTRICT ENGINEER
Company	AMOCO PRODUCTION COMPANY
Date	JANUARY 11, 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	December 30, 1982
Registered Professional Engineer and Land Surveyor	Fred B. Kerr Jr.
Certification No.	3950

SUPPLEMENTAL INFORMATION TO FORM 9-331C
J. F. Day "E" No. 1E
1690' FNL x 980' FWL, Section 17, T28N, R10W
San Juan County, NM

The geologic name of the surface formation is the 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	823 '	5116 '
Kirtland	1035 '	4904 '
Fruitland	1780 '	4159 '
Pictured Cliffs	2045 '	3894 '
Chacra (if present)	2583 '	3356 '
Cliff House	3587 '	2352 '
Mesaverde-		
Point Lookout	4385 '	1554 '
Gallup	5530 '	409 '
Dakota	6470 '	-531 '
TD	6760 '	-821 '

Estimated KB elevation: 5939 '

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 : DIL-SP-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 shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

MULTI-POINT SURFACE USE PLAN


J. F. Day "E" No. 1E
1690' FNL, 980' FWL, Section 17, T28N, R10W
San Juan County, New Mexico

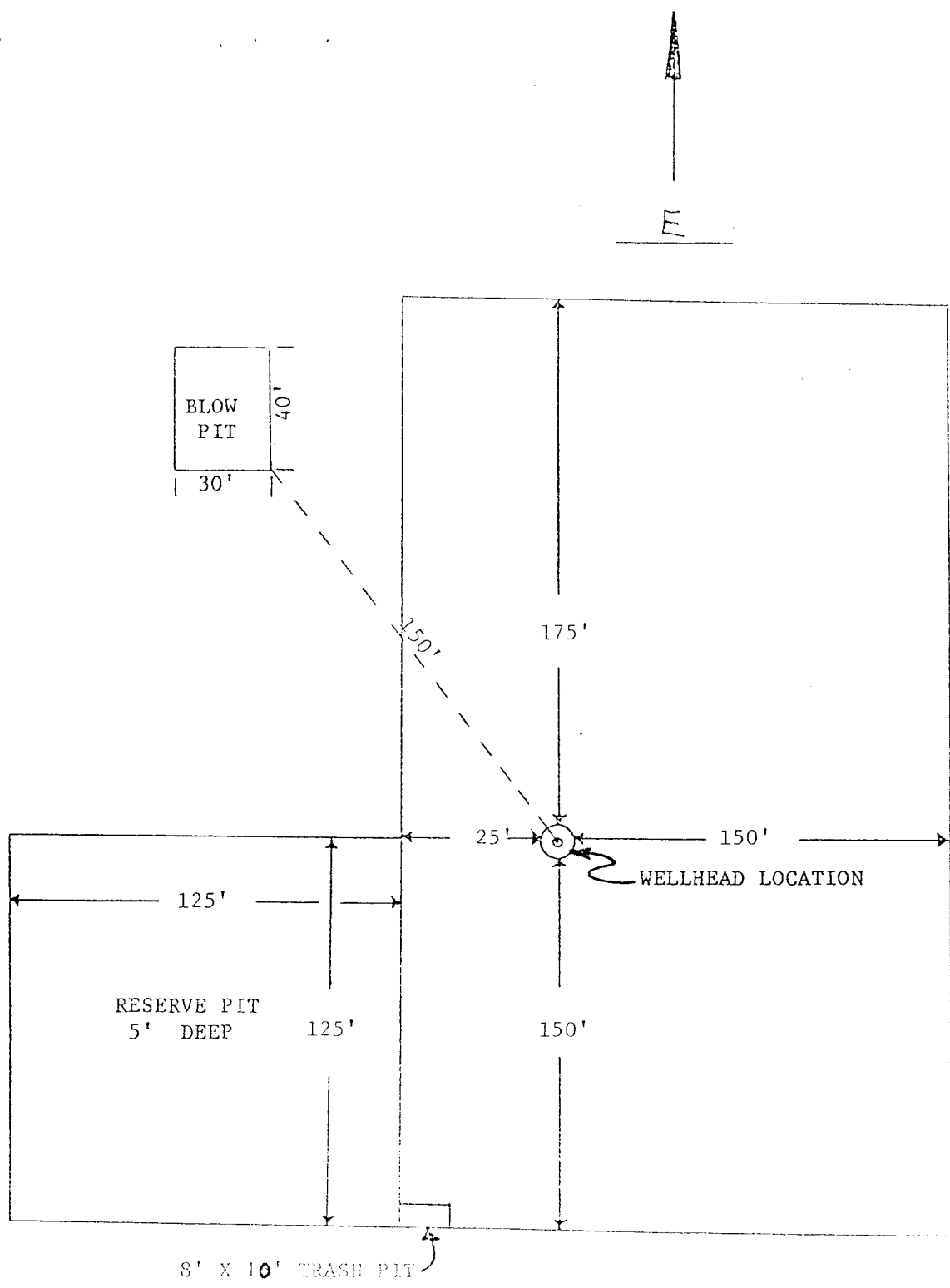
1. The attached topographic map shows the proposed route to the location.
2. No road will be built.
3. Existing oil and gas wells within a one-mile radius of our proposed well have spotted on the vicinity map.
4. There is one 210-barrel tank located at the J. F. Day "E" No. 1.
5. Water will be hauled from 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, all waste and liquids will be pumped out and fluids bladed into roads.
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 4' cut off top.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography is flat, on top of ridge, sandy loam w/sage, juniper & native grasses.
12. Representatives of the Minerals Management Service'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.

Operator's Representative: S. D. Blossom
Office Phone: 505-325-8841
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 carried out in accordance with the plan and its contractors and sub-contractors are in conformity with this plan and the terms and conditions under which it is approved.

Date 2-8-83

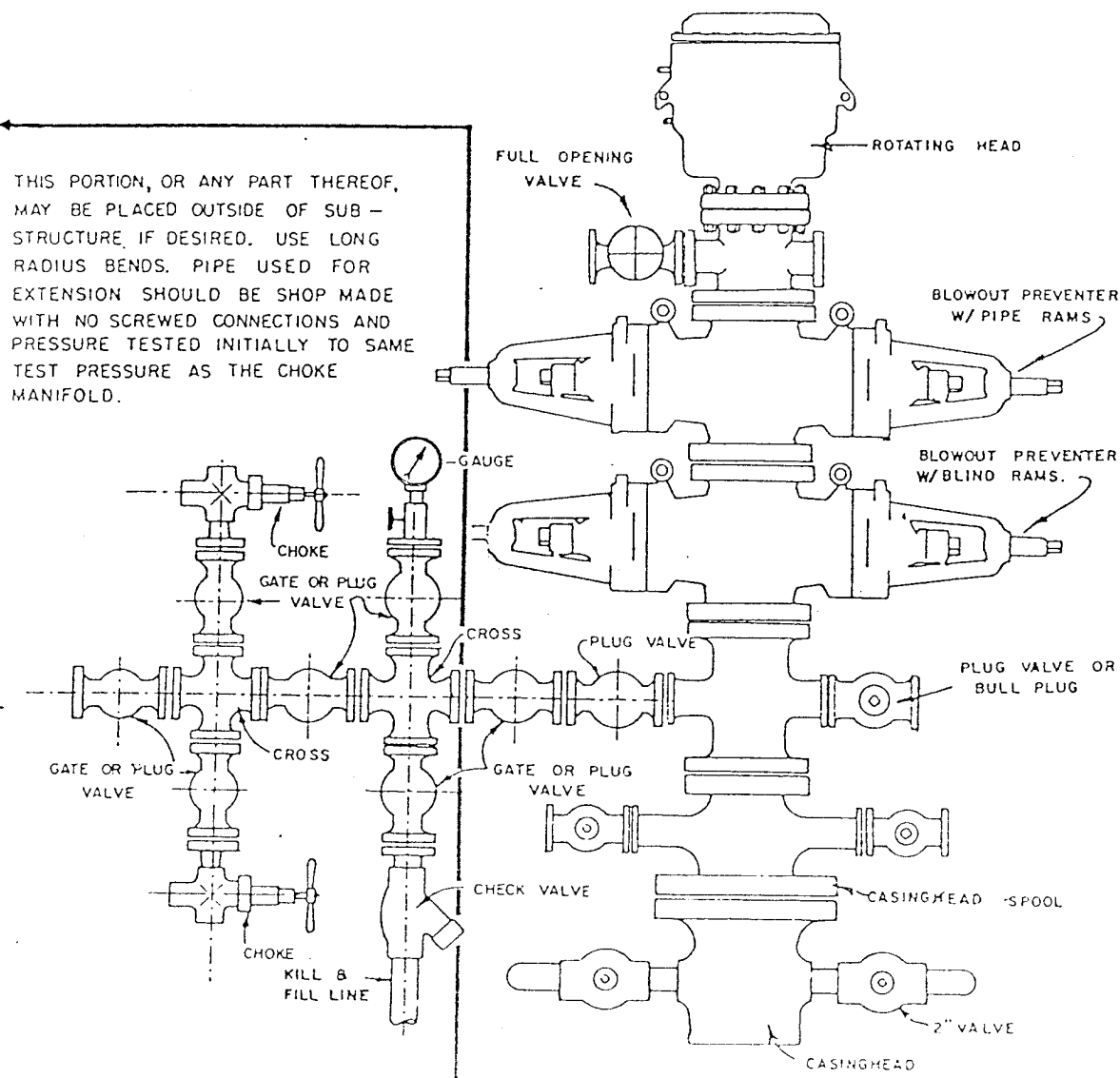

S. D. Blossom, District Superintendent



APPROXIMATELY 1.2 ACRES

Amoco Production Company		SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS		DRG
J. F. Day "E" No. 1E		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

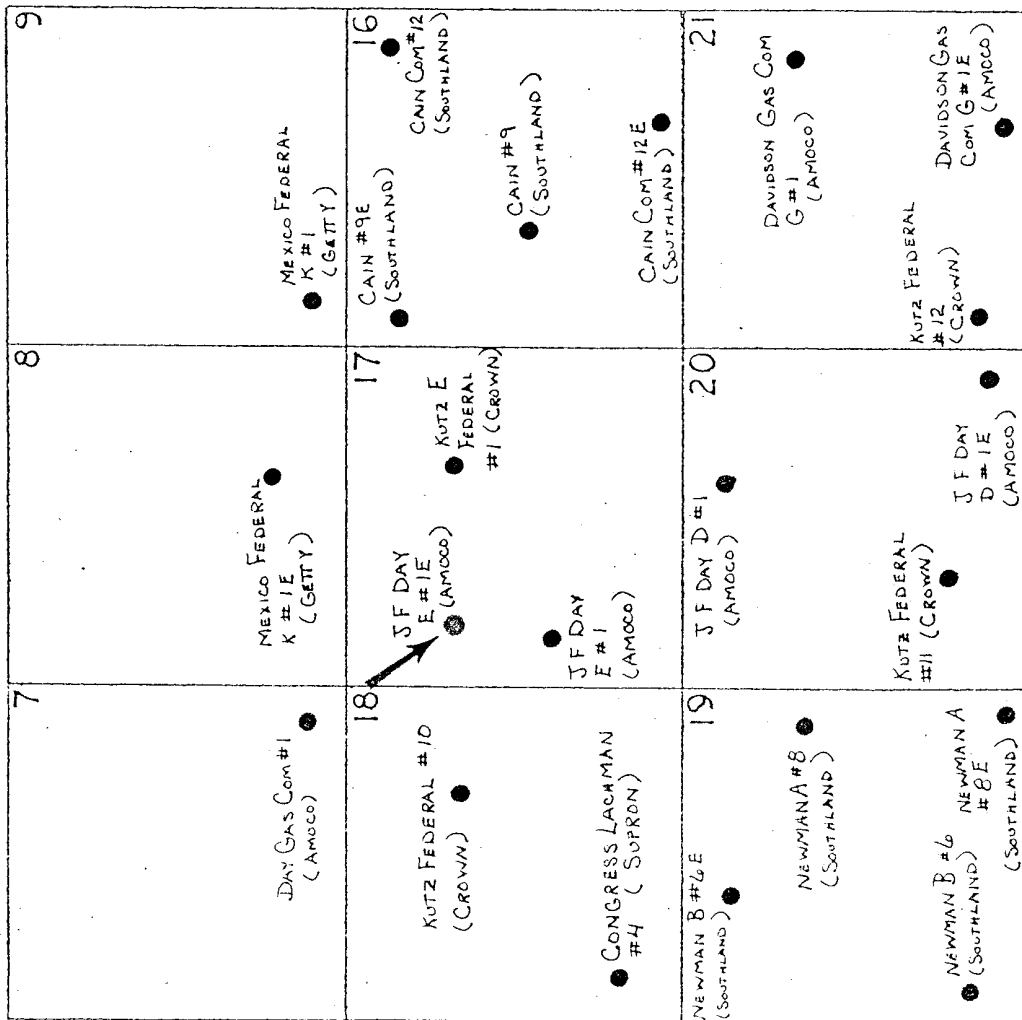
EXHIBIT D-4



OCTOBER 16, 1969

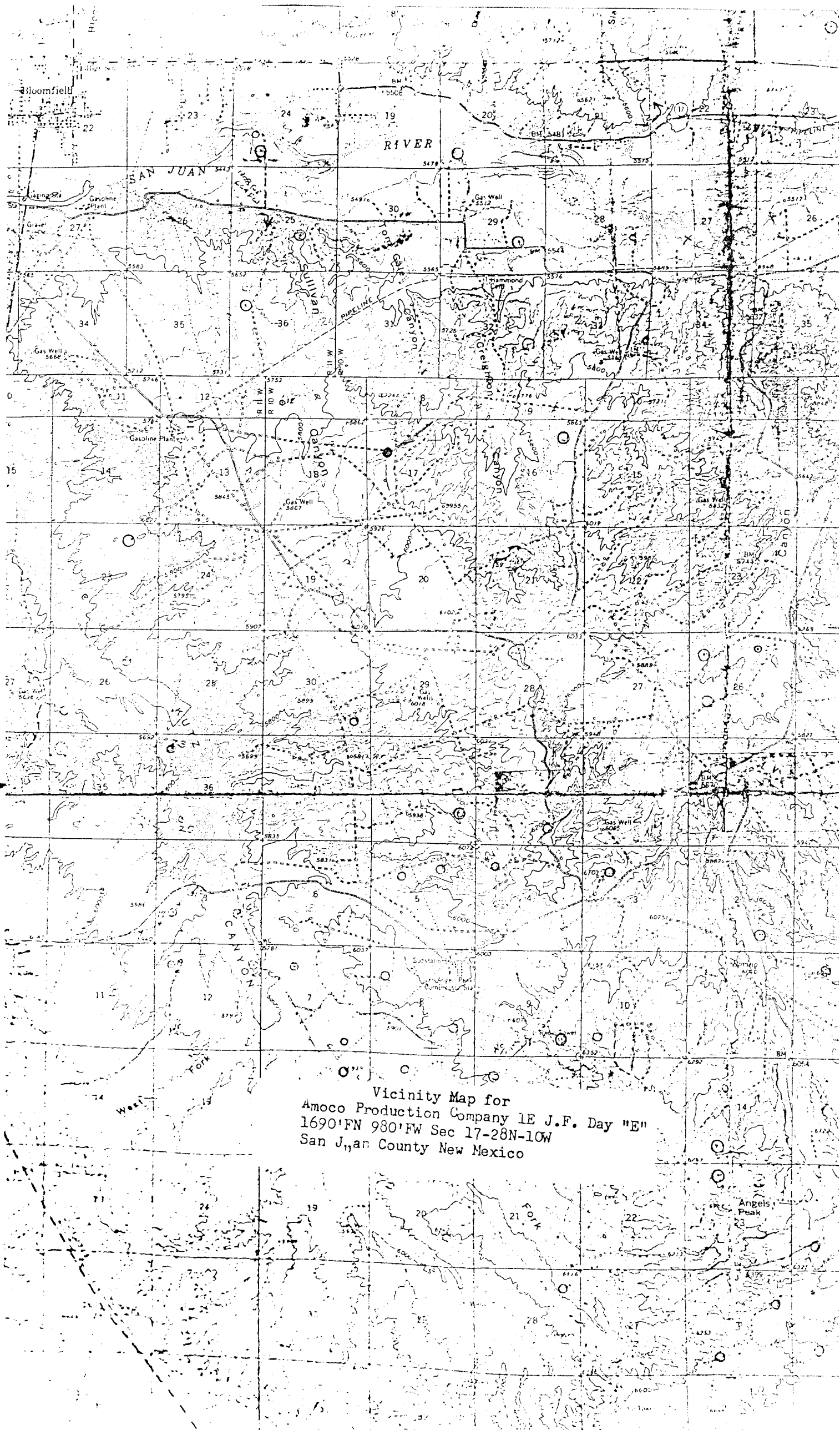
Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

RIOW

T 28 N



 PROPOSED WELL SITE
 EXISTING WELL SITES



Vicinity Map for
Amoco Production Company 1E J.F. Day "E"
1690'FN 980'FW Sec 17-28N-10W
San Juan County New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1690' FNL x 980' FWL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Completion

☐
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5. LEASE

SF-047039B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

J.F. Day "E"

9. WELL NO.

1E

10. FIELD OR WILDCAT NAME

Basin Dakota

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

SW/NW, Section 17, T28N, R10W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

14. API NO.

30-045-25615

15. ELEVATIONS (SHOW OF, KDB, AND WD)

5926' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Moved in and rigged up the service unit on 11-17-83. The total depth of the well is 6729' and the plugback depth is 6686'. Pressure tested the production casing to 3900 psi. Perforated the following intervals: 6385'-6391', 6403'-6415', 6465'-6495', 6524'-6539', 6545'-6572', 2 jspf, .38" in diameter for a total of 180 holes. Fraced interval (6385'-6572') with 120,000 gals. of 75 quality 20# gelled water containing 2% KCL, foamer, and 150,000# 20-40 sand. The 2-3/8" tubing was landed at 6610' and the rig released on 11-23-83.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ ft.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Dist. Adm. Supervisor DATE 12-20-83

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY

TITLE

DATE

ACCEPTED FOR RECORD

DEC 23 1983

*See Instructions on Reverse Side

NMOCC

FARMINGTON RESOURCE AREA
BY SMM