

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-045-24427  
5. LEASE DESIGNATION AND SERIAL NO.

SF-078828-A

6. IF INDIAN, AGENT OR TRIBE NAME

7. UNIT AGREEMENT NAME

Gallegos Canyon Unit

8. FARM OR LEASE NAME

9. WELL NO.

184E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., N., OR BLK.

AND SURVEY OR AREA  
NW/4, SE/4, Section 28,  
T28N, R12W

12. COUNTY OR TERRITORY

San Juan

13. STATE  
New Mexico

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WELL

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER INFILL

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

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

At surface

1435' FSL and 1590' FEL, Section 28, T28N, R12W

At proposed prod. zone

Same

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

9 miles Southeast of Farmington, New Mexico

15. DISTANCE FROM PROPOSED\*

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

1435'

16. NO. OF ACRES IN LEASE

1760.0

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

E/320

18. DISTANCE FROM PROPOSED LOCATION\*

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

2421'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

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

5684' 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'	315 sx Class "B" w/2% CaCl <sub>2</sub> -circ.
7-7/8"	4-1/2" (New)	10.5# K-55	6500'	Stage 1-360 sx Class "B" 50:50 PCZ 6% gel, 2# med tuf plug/sx, and 0.8% FLA. Tail in w/ 100 sx Class "B" Neat-circ. Stage 2-640 sx Class "B" 65:35 PCZ, 6% gel, 2# med tuf plug/sx, and 0.8% FLA. Tail in w/ 100 sx Class "B" Neat-circ. D: Tool set at 4188'.

This application to drill an Infill Basin Dakota well 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. The gas from this well is dedicated to El Paso Natural Gas Co.

Application for an unorthodox location has been filed with the Santa Fe office of the NMOC.

RECEIVED

APR 25 1980

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

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.

SIGNED

B. E. Jackall

TITLE

District Engineer

DATE

April 21, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Charles Gholson

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DRILLING LOG TO BE FILED WITH  
THIS PERMIT AND MAINTAINED  
IN THE FILE OF THIS PERMIT

NMOC

APPROVED  
AS AMENDED

JUL 1 1980

JAMES F. GILES  
DISTRICT ENGINEER

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-78

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

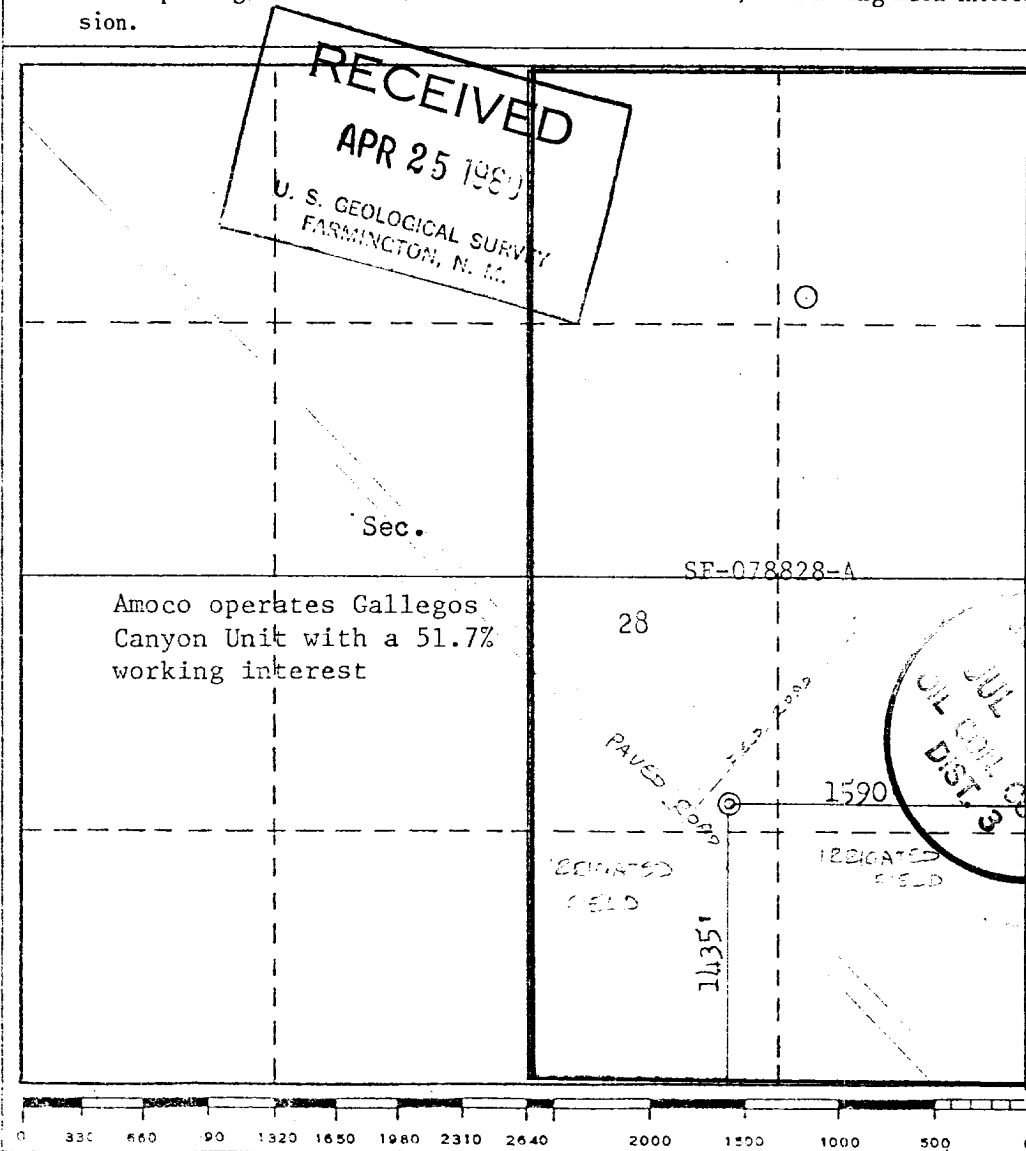
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>GALLEGOS CANYON UNIT</b>		Well No. <b>184-E</b>
Unit Letter <b>J</b>	Section <b>23</b>	Township <b>28N</b>	Range <b>12W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>11435</b> feet from the <b>South</b> line and <b>1590</b> feet from the <b>East</b> line					
Ground Level Elev. <b>5684</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		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 Unitization (Gallegos Canyon Unit)

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.

	<b>CERTIFICATION</b>  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>B.E. Fackrell</i> Name <b>B.E. FACKRELL</b> Position <b>DISTRICT ENGINEER</b> Company <b>AMOCO PRODUCTION COMPANY</b> Date <b>MARCH 28, 1980</b>  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 <b>March 26, 1980</b> Registered Professional Engineer and Oil and Gas Surveyor <i>Fred B. Kerr Jr.</i> <b>Fred B. Kerr Jr.</b> Certificate No. <b>3950</b>
--	---

SUPPLEMENTAL INFORMATION TO FORM 9-331C  
GALLEGOS CANYON UNIT NO. 184E  
1435' FSL & 1590' FEL, SECTION 28, T28N, R12W  
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	273 '	5424'
Kirtland	318 '	5379'
Fruitland	1088 '	4609'
Pictured Cliffs	1418 '	4279'
Chacra (if present)	'	'
Mesaverde	Cliff House 3003 '	2694'
	Point Lookout 3888 '	1809'
Gallup	5058 '	639'
Dakota	5958 '	-251'
TD	6500 '	-766'

Estimated KB elevation: 5697 '

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:

SP-GR-Induction  
FDC-CNL-GR

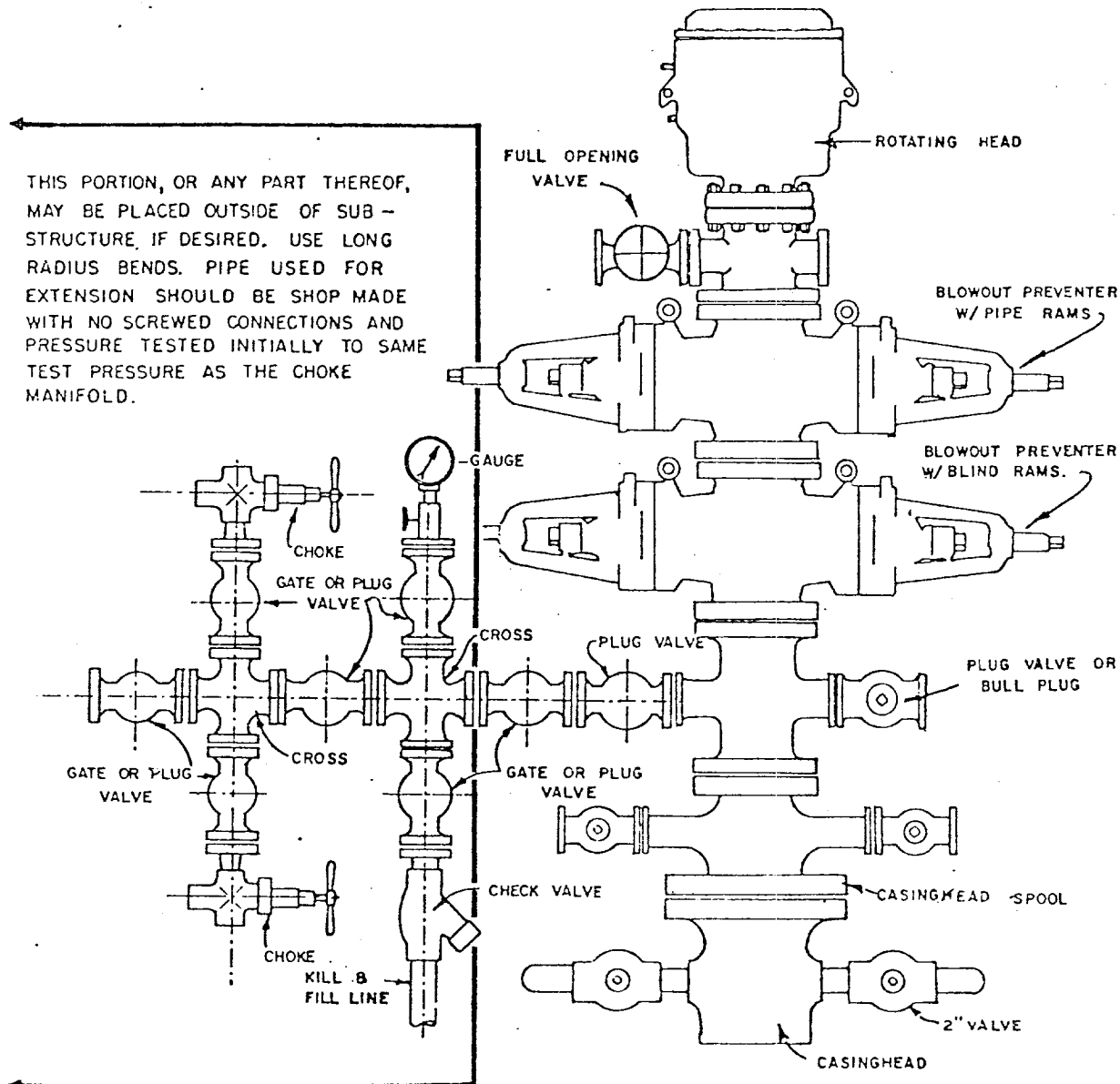
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.

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

GALLEGOS CANYON UNIT NO. 184E  
1435' FSL & 1590' FEL, SECTION 28, T28N, R12W  
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 Gallegos Canyon Unit Well No. 233 (M-27-28-12) and at Gallegos Canyon Unit No. 184 (A-28-28-12).
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 2-foot cut will be made on southwest 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 Indian Affairs (BIA).
11. The general topography is a flat terrain, at edge of cultivated field.

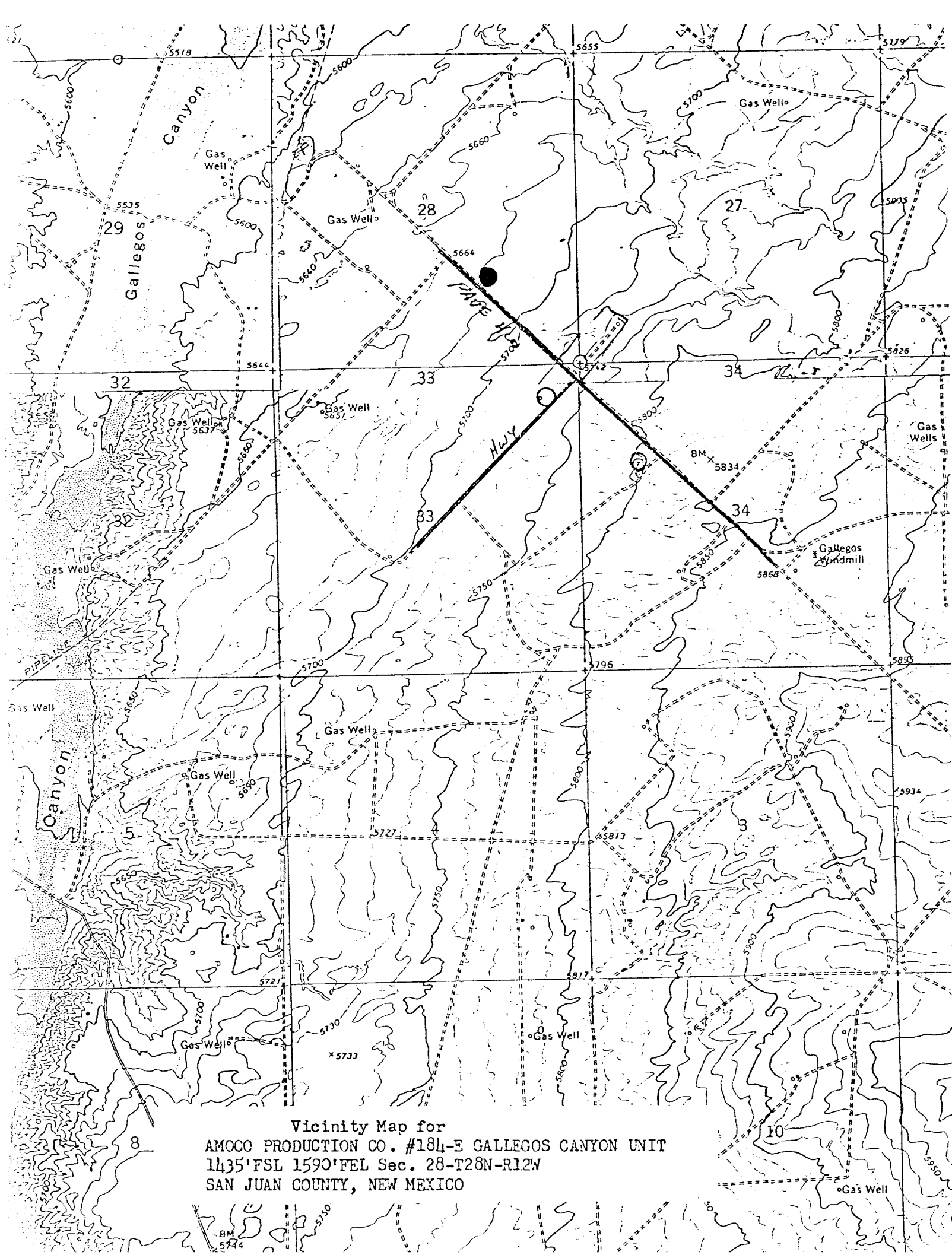
Representatives of the U. S. Geological Survey's Farmington Office inspected the site with Amoco personnel. Cultural resources inspection was not conducted as a blanket archaeological clearance has been previously established for the area in which this well is located.

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.

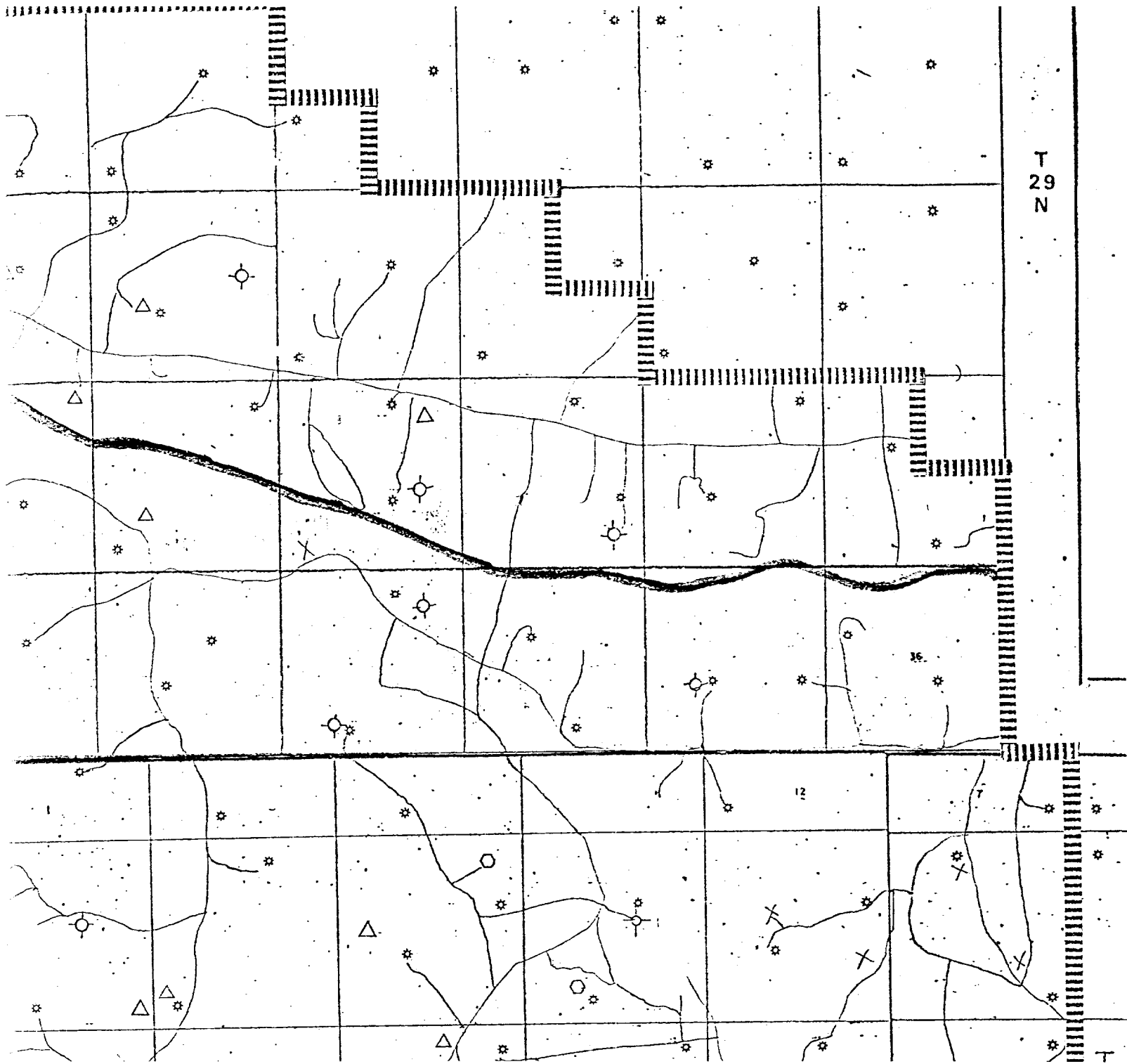
Date April 14, 1980

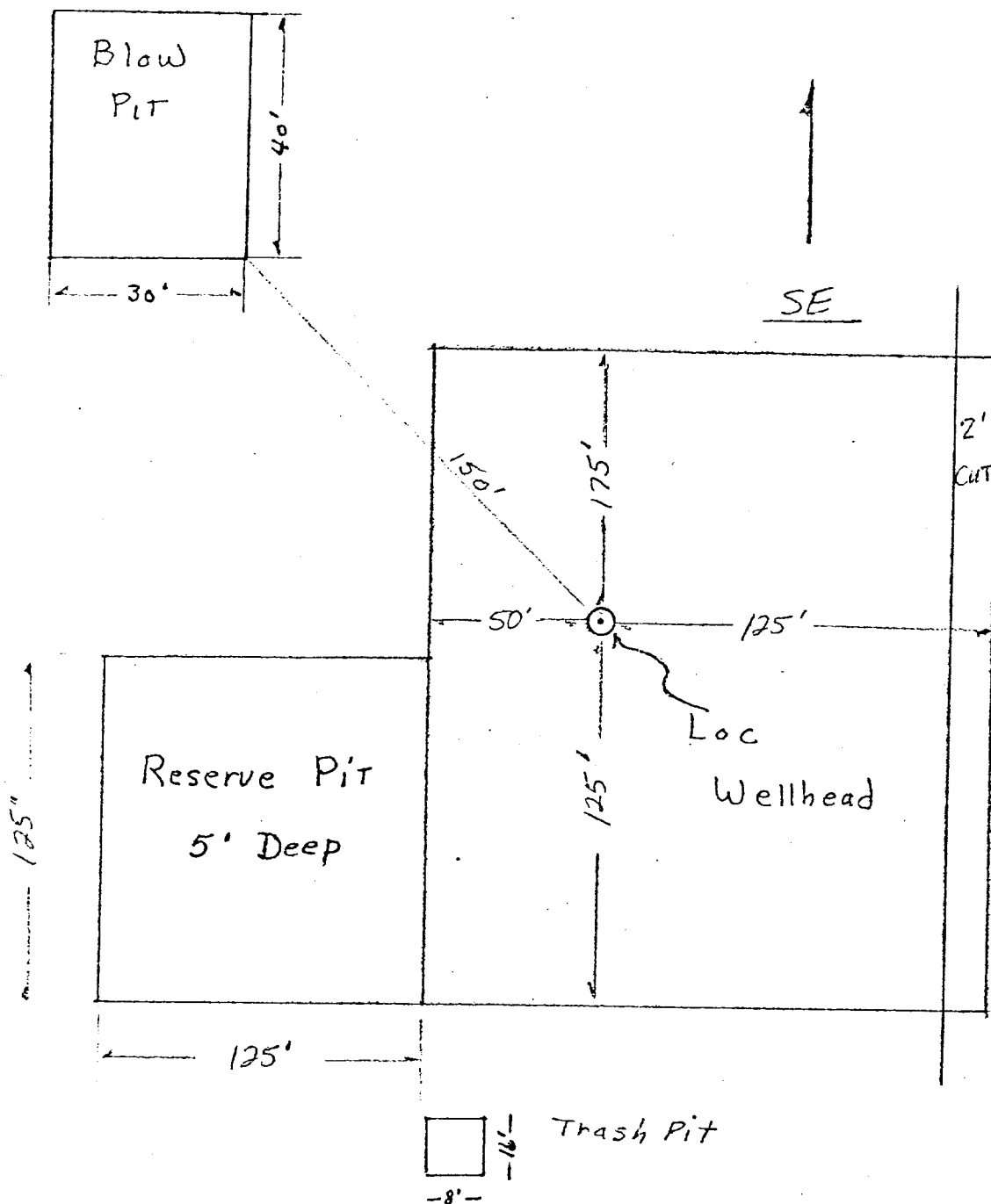
R. W. Schroeder  
R. W. Schroeder, District Superintendent



Vicinity Map for  
AMOCO PRODUCTION CO. #184-E GALLEGOS CANYON UNIT  
1435' FSL 1590' FEL Sec. 28-T28N-R12W  
SAN JUAN COUNTY, NEW MEXICO

T  
29  
N





Approximately 1.2 Acres

Amoco Production Company		SCALE: <i>NONE</i>
Drilling Location Specs		
CALLEGOS CANYON UNIT #184E		DRG. NO.