

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, New Mexico 87401

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

At surface

m 1030' FSL and 1050' FWL, Section 27, T28N, R4W
At proposed prod. zone

Same

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

10 miles Southeast of Gobernador, New Mexico

15. DISTANCE FROM PROPOSED*

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

1030'

16. NO. OF ACRES IN LEASE

640.00

17. NO. OF ACRES ASSIGNED
TO THIS WELL

5/320

18. DISTANCE FROM PROPOSED LOCATION*

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

3465'

19. PROPOSED DEPTH

6660'

20. ROTARY OR CABLE TOOLS

Rotary

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

7247' GL

22. APPROX. DATE WORK WILL START*

As soon as permitted

23.

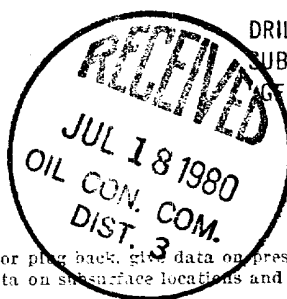
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" (New)	32.3# K-55	300'	250 sx Class B Neat w/2% CaCl2-circ
8-3/4"	7" (New)	20.0# K-55	4300'	730 sx*
6-1/4"	4-1/2" (New)	10.5# K-55	6660'	140 sx Class B Neat w/2% CaCl2 Circ to intermediate casing.

The above well is being drilled to further develop the Blanco Mesaverde Field. The well will be drilled with a low solids non-dispersed mud system. Completion will be based on open hole logs. This acreage is not dedicated. Additional information required by NTL-6 for the application to drill and a multi-point surface use plan are attached.

*630 sx Class B 50:50 POZ, 6% gel,
2# med tuf plug/sx, 0.2% friction
reducer, 0.8% FLA and tail in w/
100 sx Class B Neat-circ.

RECEIVED



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 preventer program, if any.

24.

SIGNED

TITLE District Engineer

DATE June 13, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ok Jmk

APPROVED
AS AMENDEDJUL 17 1980
James F. Sims
DISTRICT ENGINEER

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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.

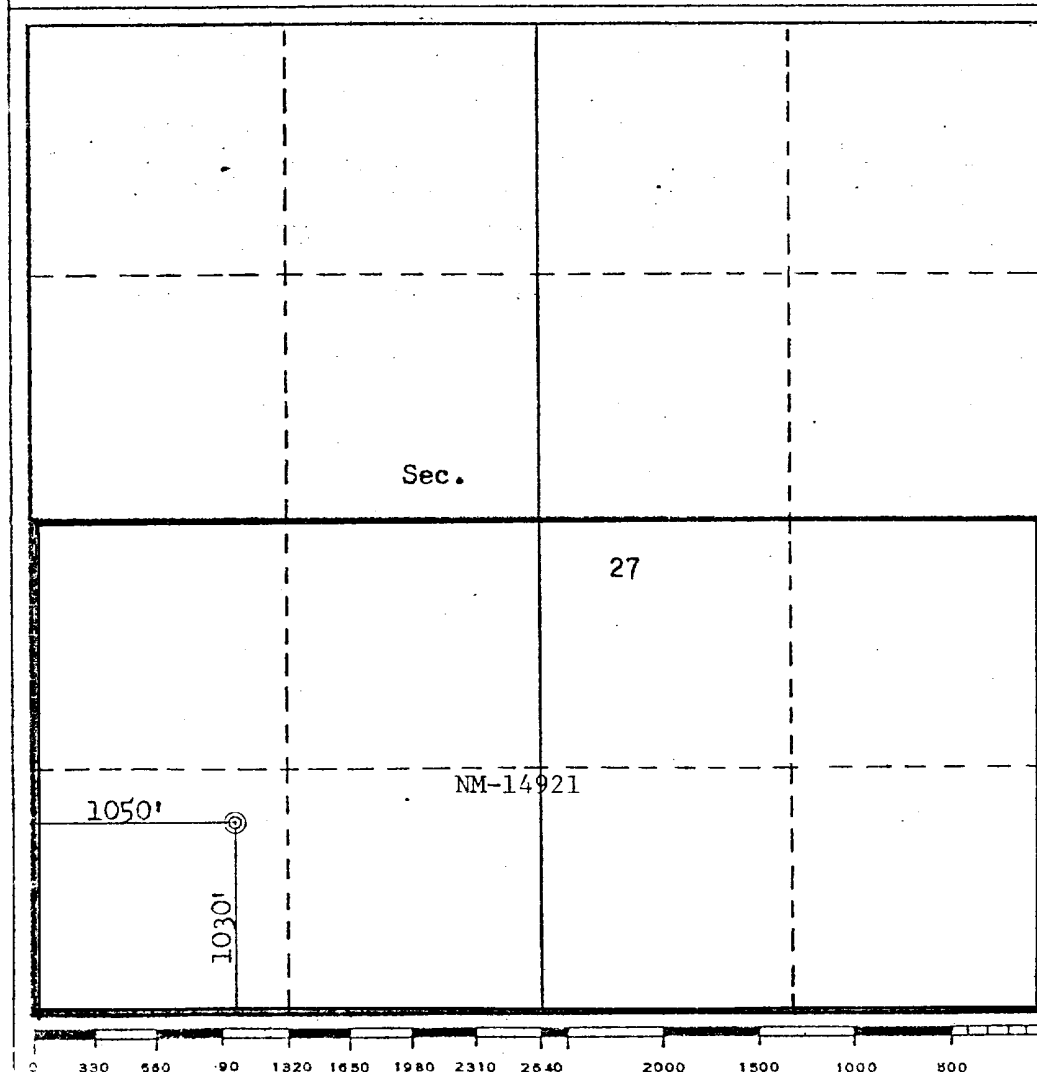
Operator AMOCO PRODUCTION COMPANY			Lease VALENCIA CANYON UNIT		Well No. 43
Unit Letter M	Section 27	Township 28N	Range 4W	County Rio Arriba	
Actual Footage Location of Well: 1030 feet from the South line and 1050 feet from the West line					
Ground Level Elev. 7247	Producing Formation Mesaverde		Pool Blanco Mesaverde		Dedicated Acreage: 320 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

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.



CERTIFICATION

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

B. E. Fackrell
Name

B. E. FACKRELL
Position

DISTRICT ENGINEER
Company

AMOCO PRODUCTION COMPANY
Date

APRIL 29, 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

April 21, 1980
Registered Professional Engineer
and/or Land Surveyor

Fred B. Kervick Jr.
Fred B. Kervick Jr.
Certificate No. **3950**

NEW MEXICO
3950

SUPPLEMENTAL INFORMATION TO FORM 9-331C

VALENCIA CANYON UNIT NO. 43
1030' FSL & 1050' FWL, SECTION 27, T28N, R4W
RIO ARriba COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary San Jose.

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	3405 '	+3855 '
Kirtland	'	'
Fruitland	3705 '	+3555 '
Pictured Cliffs	4080 '	+3180 '
Chacra (if present)	'	'
Mesaverde [Cliff House	6025 '	+1235 '
Point Lookout	6465 '	+ 795 '
Gallup	'	'
Dakota	'	'
TD	6660 '	+ 600 '

Estimated KB elevation: 7260 '

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-Induction-GR	BSC to Intermediate	GR 2000'-Surface
FDC-CNL-GR	BSC to Intermediate	
Induction GR	Intermediate-TD	
SNP	Intermediate-TD	
FDC-GR	Intermediate-TD	

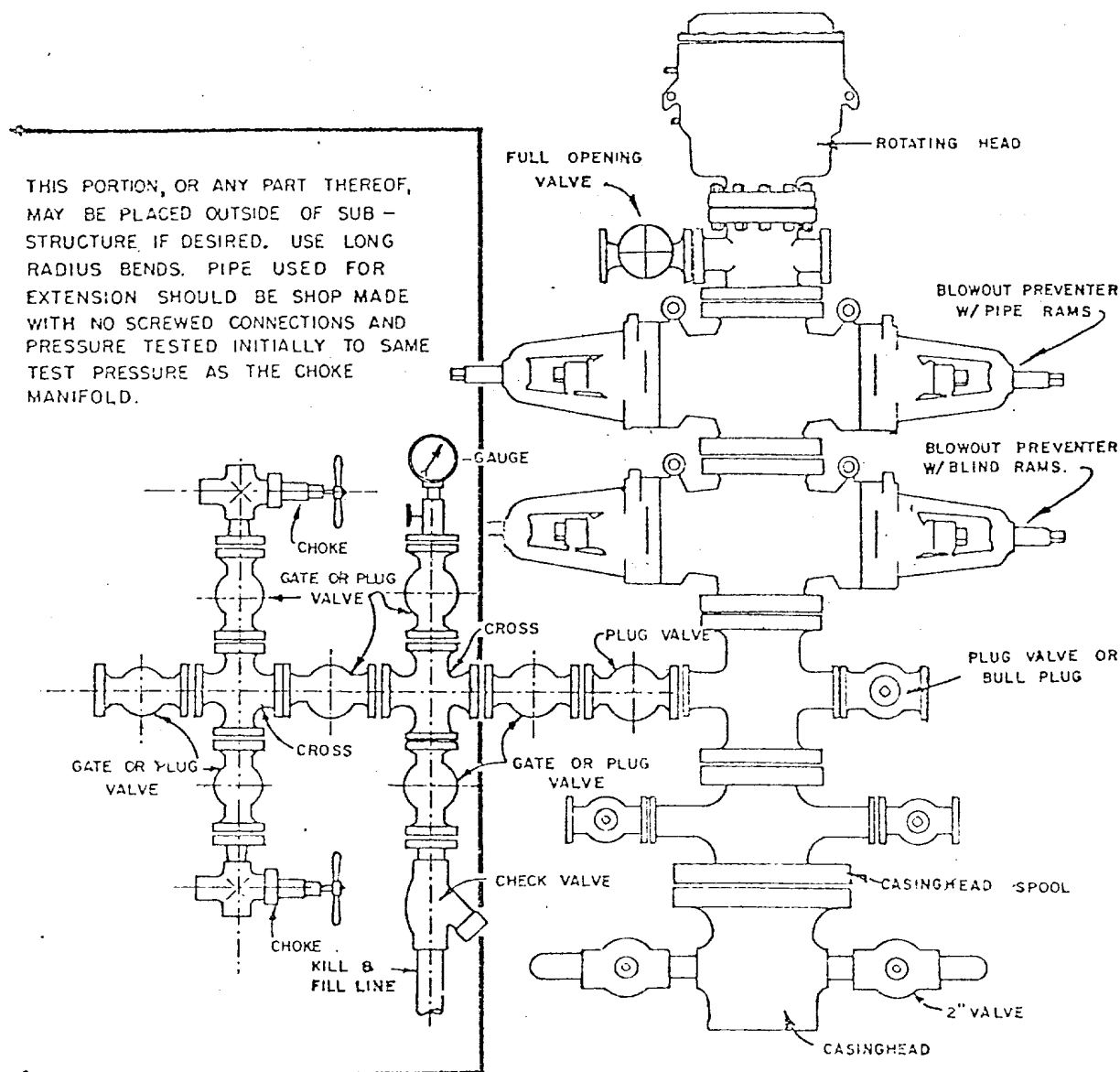
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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, 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

VALENCIA CANYON UNIT NO. 43
1030' FSL & 1050' FWL, SECTION 27, T28N, R4W
RIO ARriba 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 are no facilities located within one-half mile of the proposed location.
5. Water will be hauled from Carrizo water holes.
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 6-foot cut will be made on north 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 U. S. Forest Service.
11. The general topography and soil characteristics are a flat area with sandy loam-type soil; vegetation consists of cedar, pinon, juniper and pine trees with native grasses.

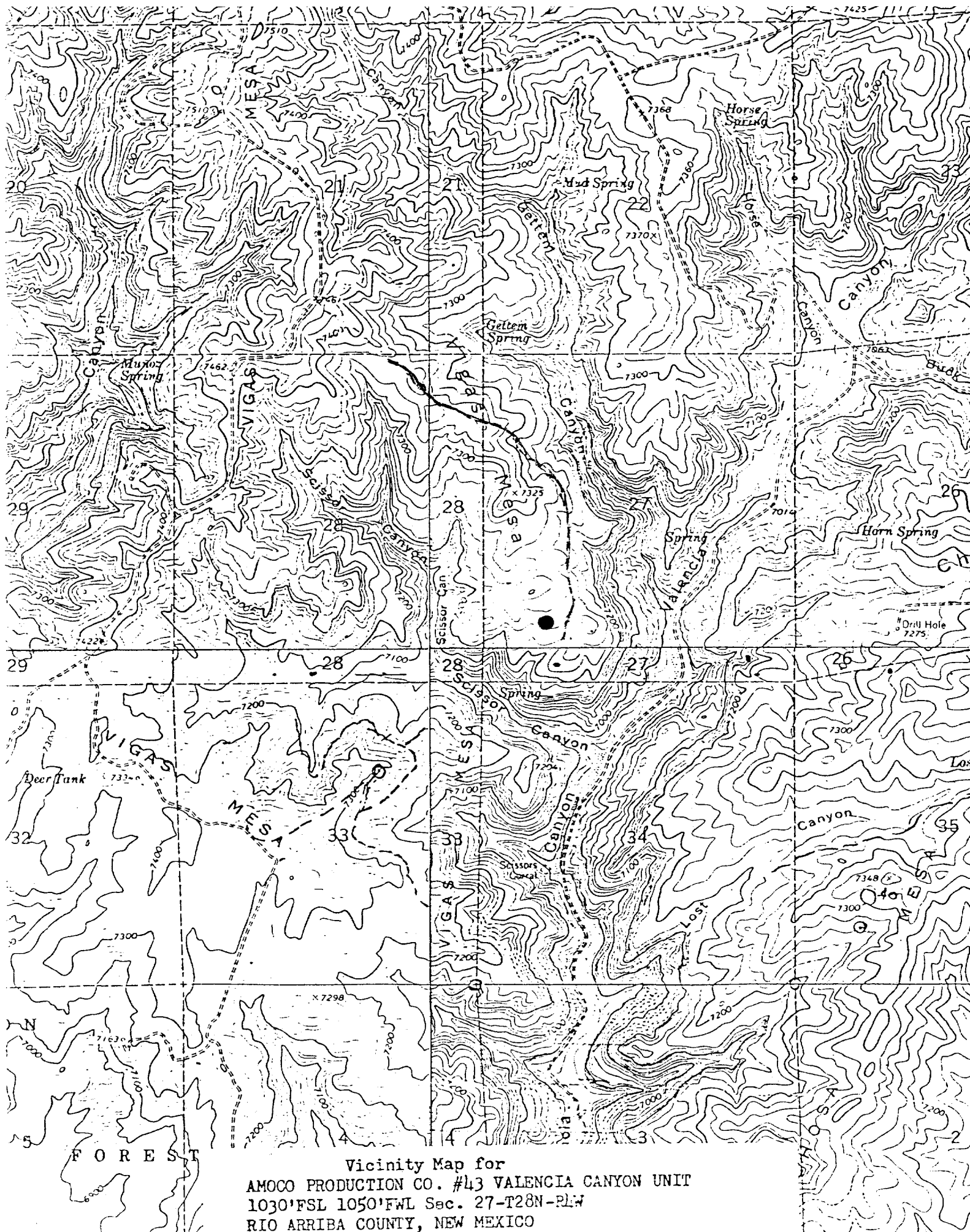
Representatives of the U. S. Geological Survey's Farmington Office and the U. S. Forest Service inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins.

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.

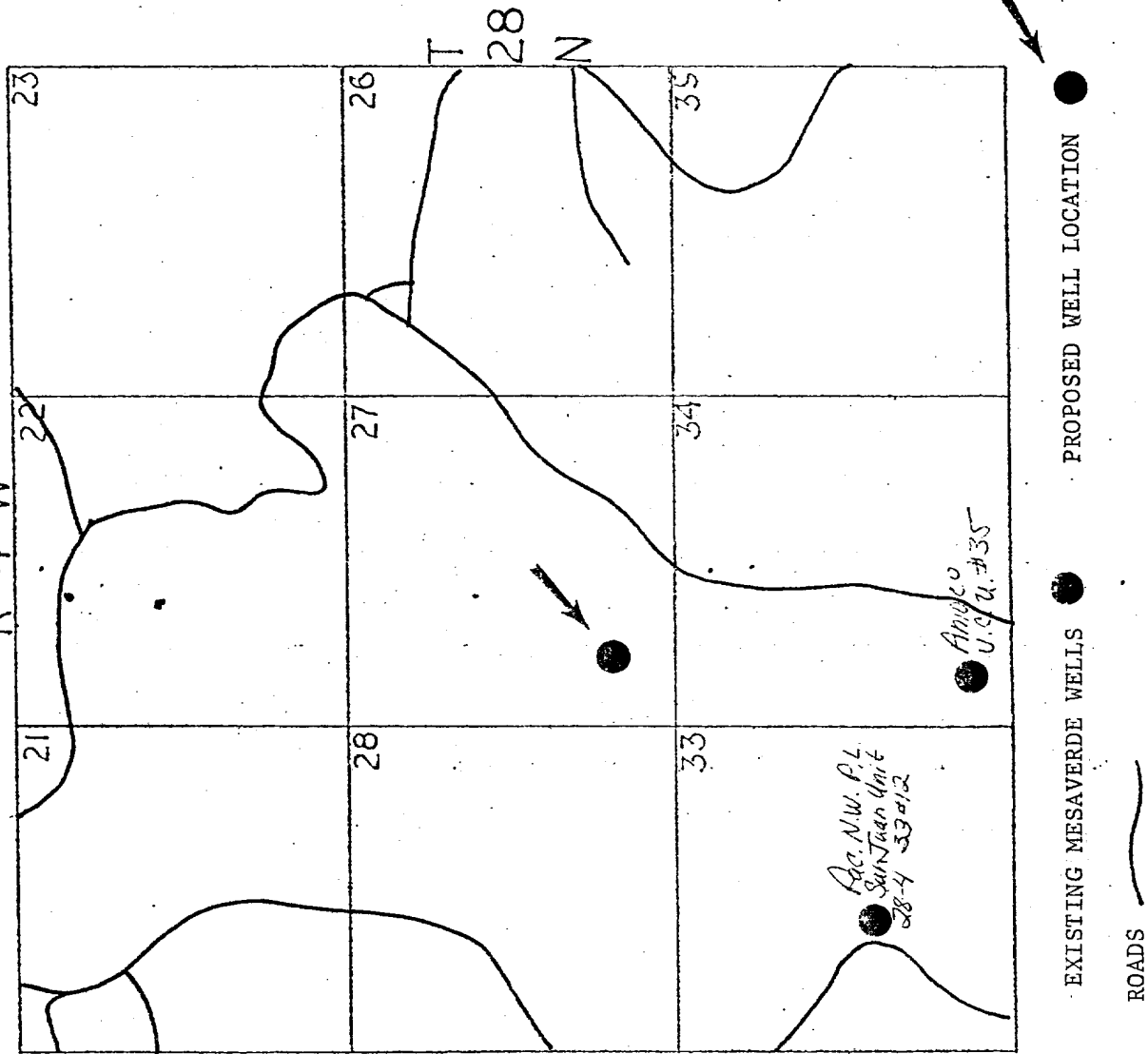
Date June 11, 1980

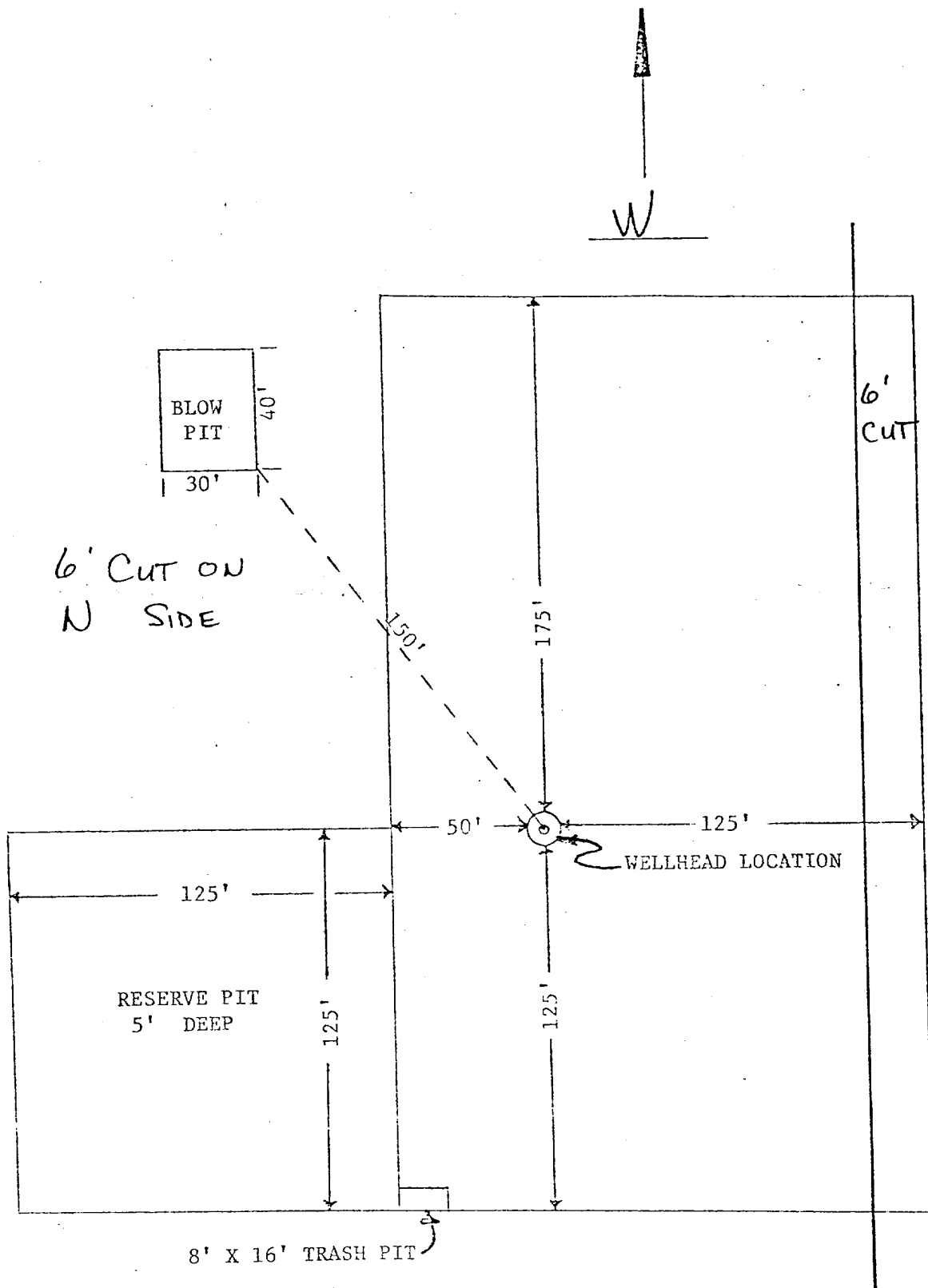
R. W. Schroeder
R. W. Schroeder, District Superintendent



V. G. U. #43

R 4 W





APPROXIMATELY 1.2 ACRES

Amoco Production Company		SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS		
VALENCIA CANYON UNIT #43		DRG. NO.