

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Apache "A" 118	
b. 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 Jicarilla Apache	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401		8. FARM OR LEASE NAME Jicarilla Apache "A" 118	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 840' FSL and 1800' FWL, Section 35, T26N, R3W At proposed prod. zone Same		9. WELL NO. 6	
11. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 25 miles Northeast of Counselors, New Mexico		10. FIELD AND POOL, OR WILDCAT Tegucito Civilian Pictured Cliffs & Blanco Mesaverde	
13. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest c.d.u. unit line, if any) 840'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4, SW/4, Section 35, T26N, R3W	
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 4283'		12. COUNTY OR PARISH Rio Arriba	
16. NO. OF ACRES IN LEASE 2560.00		13. STATE New Mexico	
19. PROPOSED DEPTH 6326'		17. NO. OF ACRES ASSIGNED TO THIS WELL 160 & 5/320	
21. ELEVATIONS (Show whether DE, RT, GR, etc.) 7388' GL		20. ROTARY OR CABLE TOOLS Rotary	
22. 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"	9-5/8" (New)	32.3# H-40	350'	240 sx Class "B" w/2% CaCl ₂
8-3/4"	7" (New)	23# N-80	6326'	525 sx Class "B" 65:35 Poz, 6% gal, 2# med tuf plug/sx, and 0.8% FLA. Tail in w/470 sx Class "B" Neat-circ.

The above well is being drilled to develop the Pictured Cliffs and Mesaverde formation. Drilling fluid will be a low solids non-dispersed mud system. Completion will be based on open hole logs. Amoco's standard blowout preventer will be employed. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

The gas from this well is not dedicated to a gas sales contract.



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 substantial sections and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED R.A. Dossy TITLE District Engineer DATE July 24, 1980
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY B. L. Lanning TITLE _____ DATE _____
GEOLOGICAL SURVEY

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

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

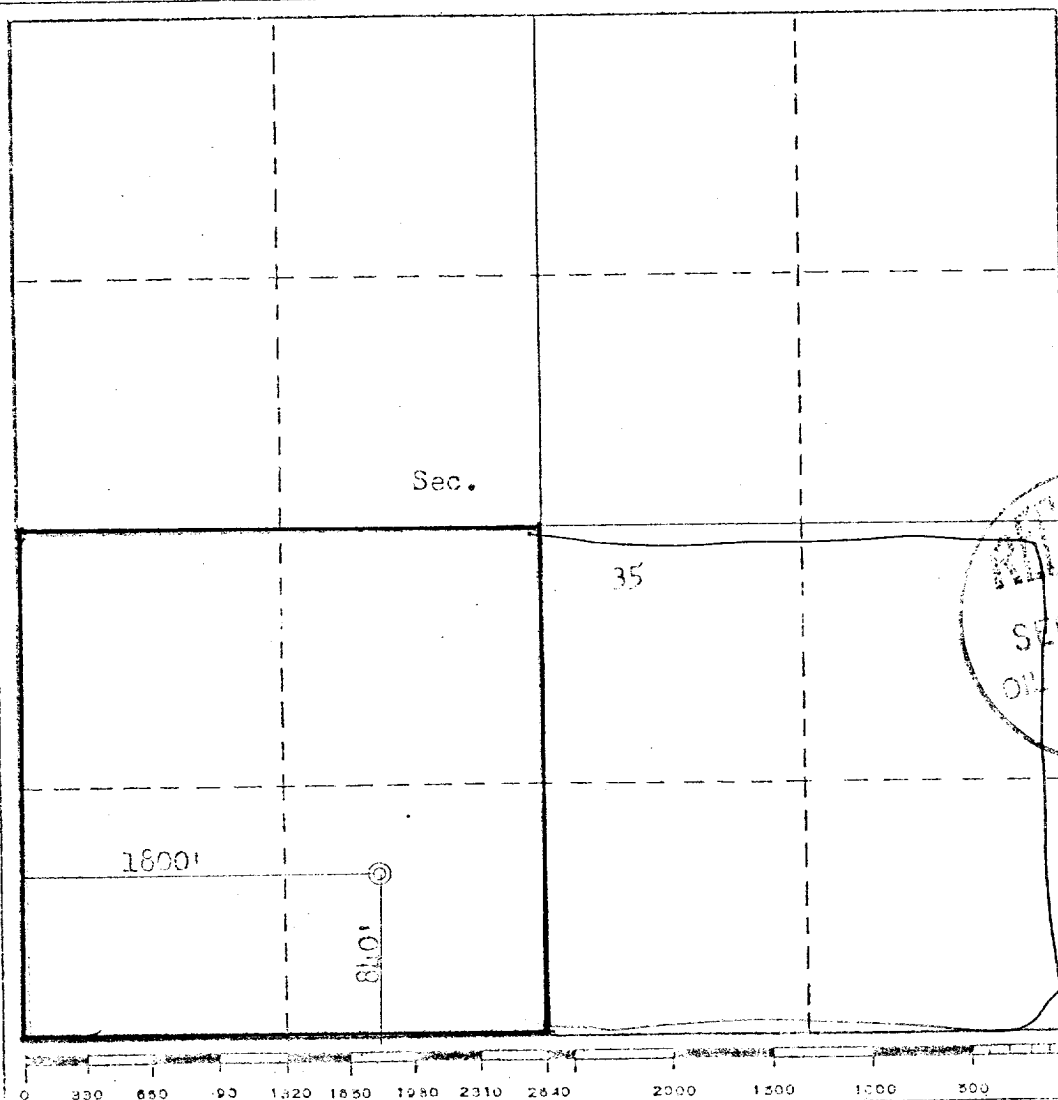
Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA APACHE A-116		Well No. 6
Unit Letter N	Section 35	Township 26N	Range 3W	County Rio Arriba	
Actual Footage Location of Well: 840 feet from the South line and 1800 feet from the West line					
Ground Level Elev. 7388	Producing Formation Pictured Cliffs/Mesaverde		Pool Tapachto Gavilan Pictured Cliffs/ Blanco Mesaverde	Dedicated Acreage: 160 / 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 _____

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.

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 and 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 H. Kerr Jr.

Certificate No.

3950

SUPPLEMENTAL INFORMATION TO FORM 9-331C
 JICARILLA APACHE "A" 118 NO. 6
 840' FSL & 1800' FWL, SECTION 35, T26N, R3W
 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>
Cjo Alamo	3681'	3720'
Hartland	3731'	3670'
Fruitland	3781'	3620'
Pictured Cliffs	3971'	3430'
Chacra (if present)	'	'
Mesaverde	Cliff House 5612'	1789'
	Point Lookout 6072'	1329'
Gallup	'	'
Dakota	'	'
TD	6326'	1075'

Estimated KB elevation: 7401'

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 2000'

Induction Electric - SP - Gamma Ray
 Compensated Formation Density-Compensated Neutron-Gamma Ray

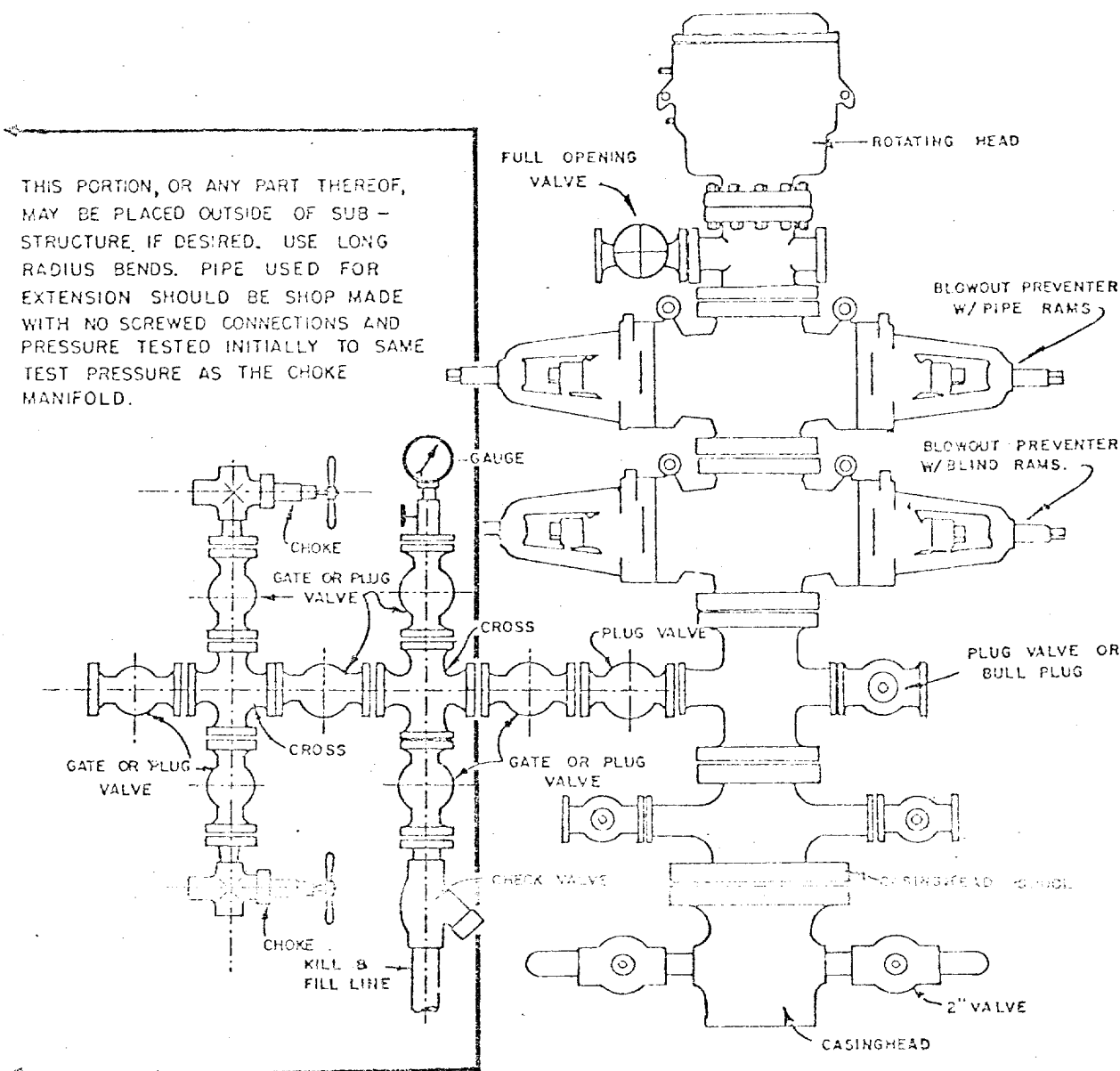
Completion design will be based on these logs. Two 20' rubber sleeve strings will be set in the intervals 3650'-3850' and 3910'-3924'.

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

JICARILLA APACHE "A" 118 NO. 6
840' FSL & 1800' FWL, SECTION 35, T26N, R3W
RIO ARRIBA COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build an access road approximately one-half mile in length and 20 feet wide. Road to be bar ditched on two sides.
An existing road approximately three-fourths mile in length will be improved.
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 two 300-barrel tanks and facilities located at Jicarilla Apache "A" 118 NO. 1, approximately one mile north.
5. Water will be hauled from Tapacito 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 5-foot cut will be made on west 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.
11. The general topography is an uneven terrain with slope to east; the soil is a sandy loam. Vegetation consists of sagebrush, native grasses, and cedar and juniper trees.

Representatives of the U. S. Geological Survey's Durango Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins and San Juan College.

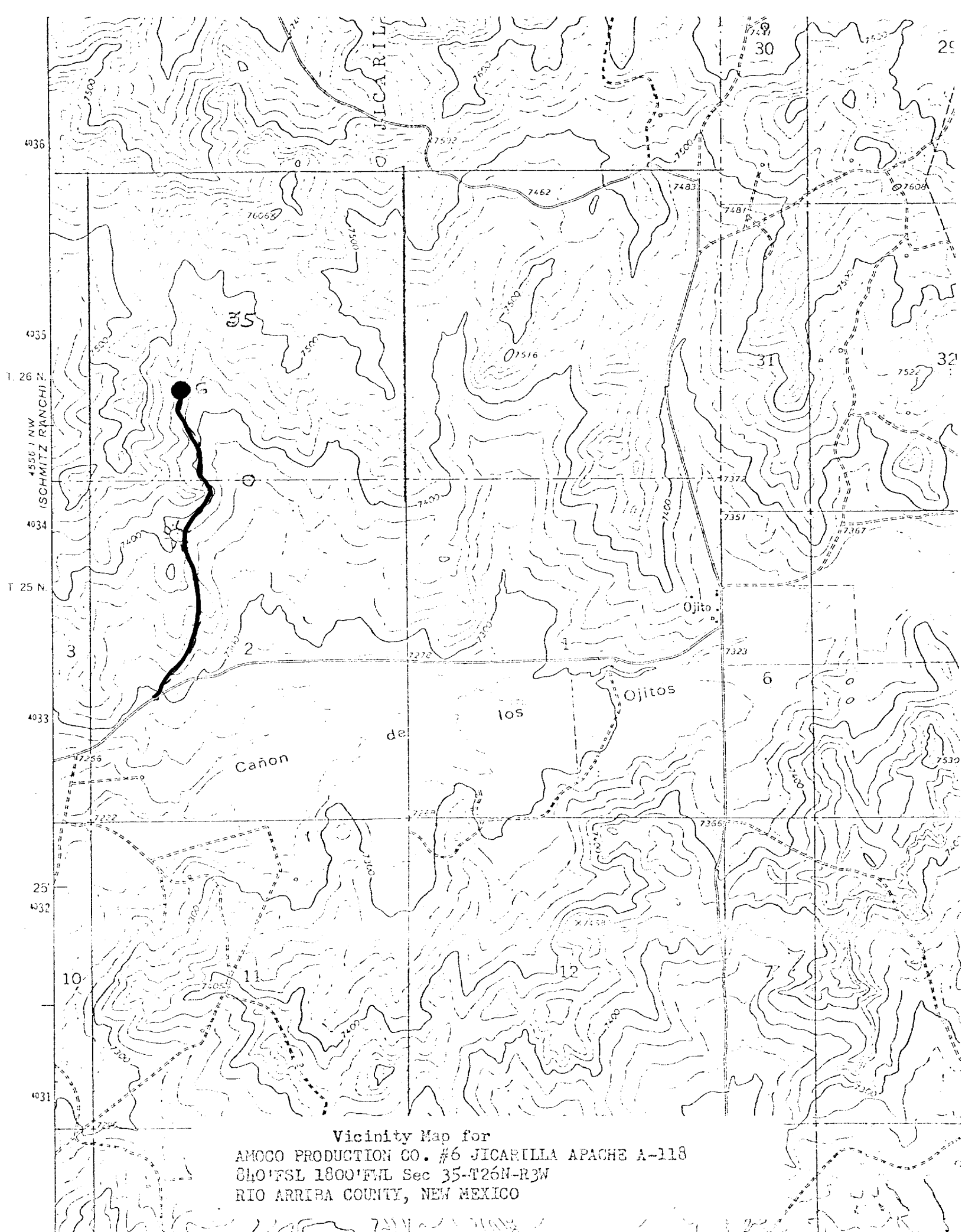
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

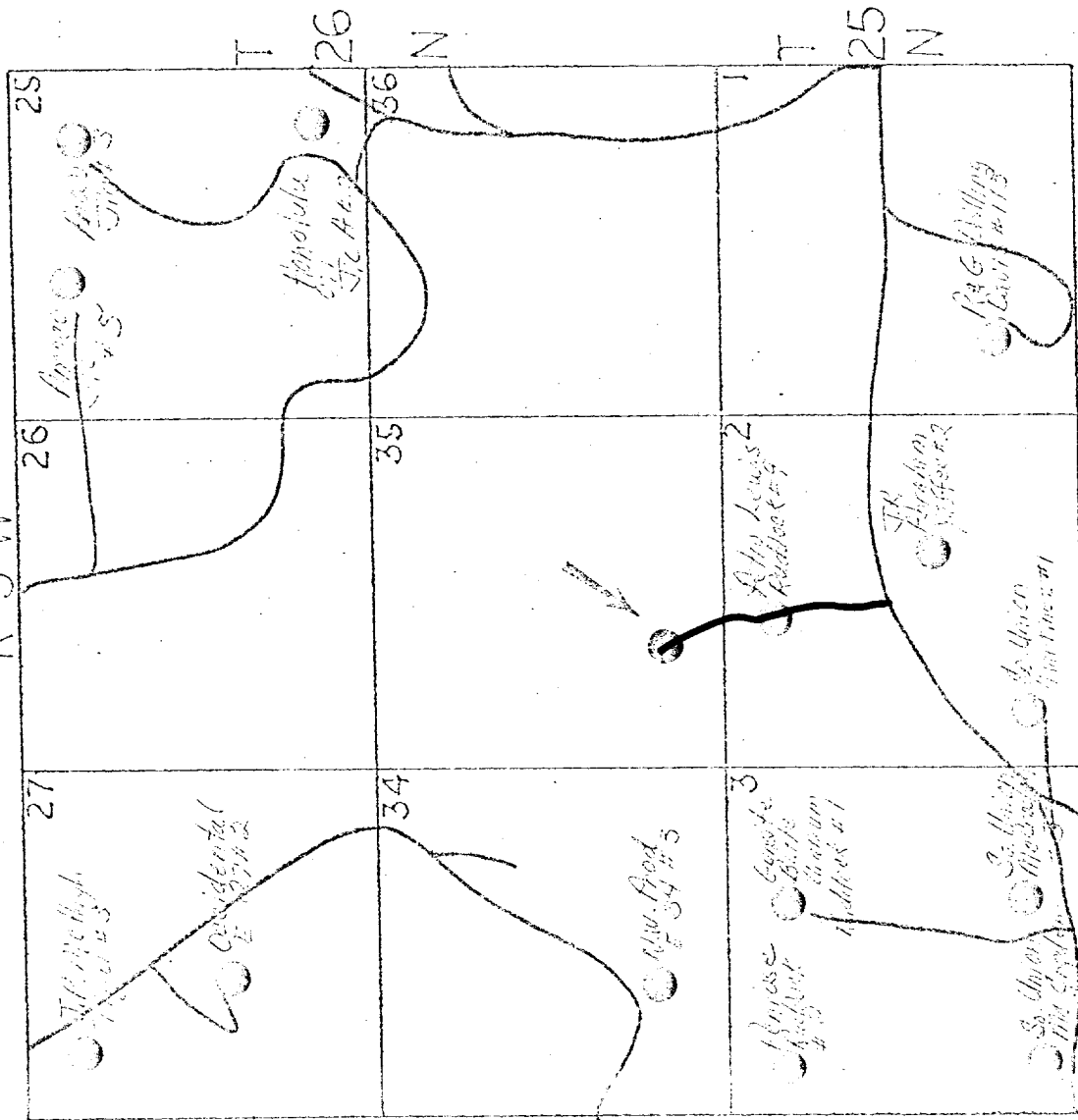
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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 June 25, 1980



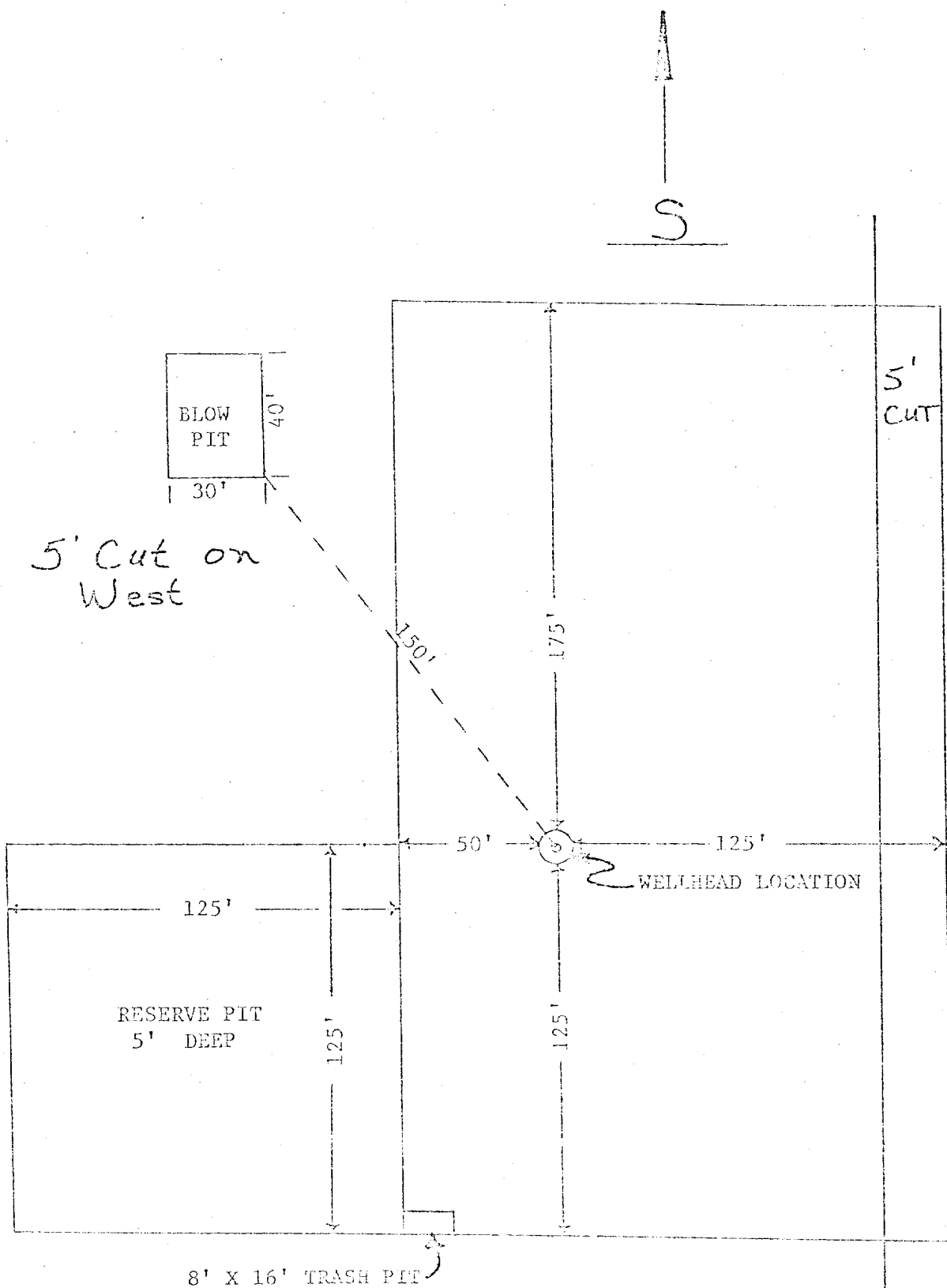
R. W. Schroeder, District Superintendent





EXISTING PICTURED CLIFFS WELLS	PROPOSED WELL LOCATION
NO RESAVERDE WELLS	

ROADS



APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS Jicarilla Apache "A" 118 No. 6	DRG. NO.