

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

1750' FSL and 1650' FEL, Section 35, T25N, R4W

At proposed prod. zone

Same

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

10 miles West of Gavilan, New Mexico

15. DISTANCE FROM PROPOSED*

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

1650'

18. DISTANCE FROM PROPOSED LOCATION*

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

2800'

16. NO. OF ACRES IN LEASE

2560.0

19. PROPOSED DEPTH

8043'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

7260' 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% CaCl2-circ.
7-7/8"	5-1/2" (New)	17# N-80	8043'	Stage 1-315 sx Class "B" 50:50 POZ, 6% gel, 0.8% FLA, and 2 lbs med tuf plug/sx. Tail in w/ 140 sx Class "B" Neat-circ.

The above well is being drilled to test the Gallup and
Dakota formations.

The gas from this acreage is dedicated to Gas Company of
New Mexico.

Stage 2-1080 sx Class "B" 65:35
POZ, 6% gel, 0.8% FLA, and 2 lbs
medium tuf plug/sx. Tail in w/
100 sx Class "B" Neat-circ.
DV tool at 5917'.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production 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

April 7, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

JUN 16 1980
JAMES F. SIMS

DISTRICT OIL & GAS SUPERVISOR

30-03-22409

5. LEASE DESIGNATION AND SERIAL NO.
Jicarilla Contract 125

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla Apache Tribal
125

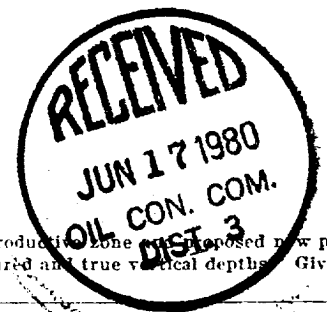
9. WELL NO.
5

10. FIELD AND POOL, OR WILDCAT
Lindrith Gal-Dakota West EXT

11. SEC., T., R., M., OR B.L.K.
AND SURVEY OR AREA
NW/4, SE/4, Section 35,
T25N, R4W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico



OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102

Revised 10-1-78

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

All distances must be from the outer boundaries of the Section

Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA APACHE TRIBAL 125		Well No. 5
Unit Letter J	Section 35	Township 25N	Range 4W	County Rio Arriba
Actual Footage Location of Well: 1750 feet from the South line and 1650 feet from the East line				
Ground Level Elev. 7260	Producing Formation Gallup - Dakota	Pool Lindrieth Gallup-Dakota West		Dedicated Acreage: 160 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes," type of consolidation _____</p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p>				
<p>Sec. 35</p> <p>1750'</p> <p>1650'</p> <p>Jicarilla Tribal Contract No. 125</p>			CERTIFICATION	
			<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>B. E. Fackrell</i></p> <p>Name B. E. FACKRELL</p> <p>Position DISTRICT ENGINEER</p> <p>Company AMOCO PRODUCTION COMPANY</p> <p>Date FEBRUARY 1, 1980</p> <p>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.</p> <p>Date Surveyed January 26, 1980</p> <p>Registered Professional Engineer and/or Land Surveyor <i>Fred B. Kerr Jr.</i> Fred B. Kerr Jr.</p> <p>Certificate No. 3950</p>	

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA APACHE TRIBAL 125 NO. 5
1750' FSL & 1650' FEL, SECTION 35, T25N, 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	2987'	4286'
Kirtland	3188'	4085'
Fruitland	3337'	3936'
Pictured Cliffs	3510'	3763'
Chacra (if present)	4380'	2893'
Mesaverde [Cliff House	5165'	2108'
Point Lookout	5677'	1596'
Gallup	6805'	468'
Dakota	7709'	-436'
TD	8043'	-770'

Estimated KB elevation: 7273'

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:

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

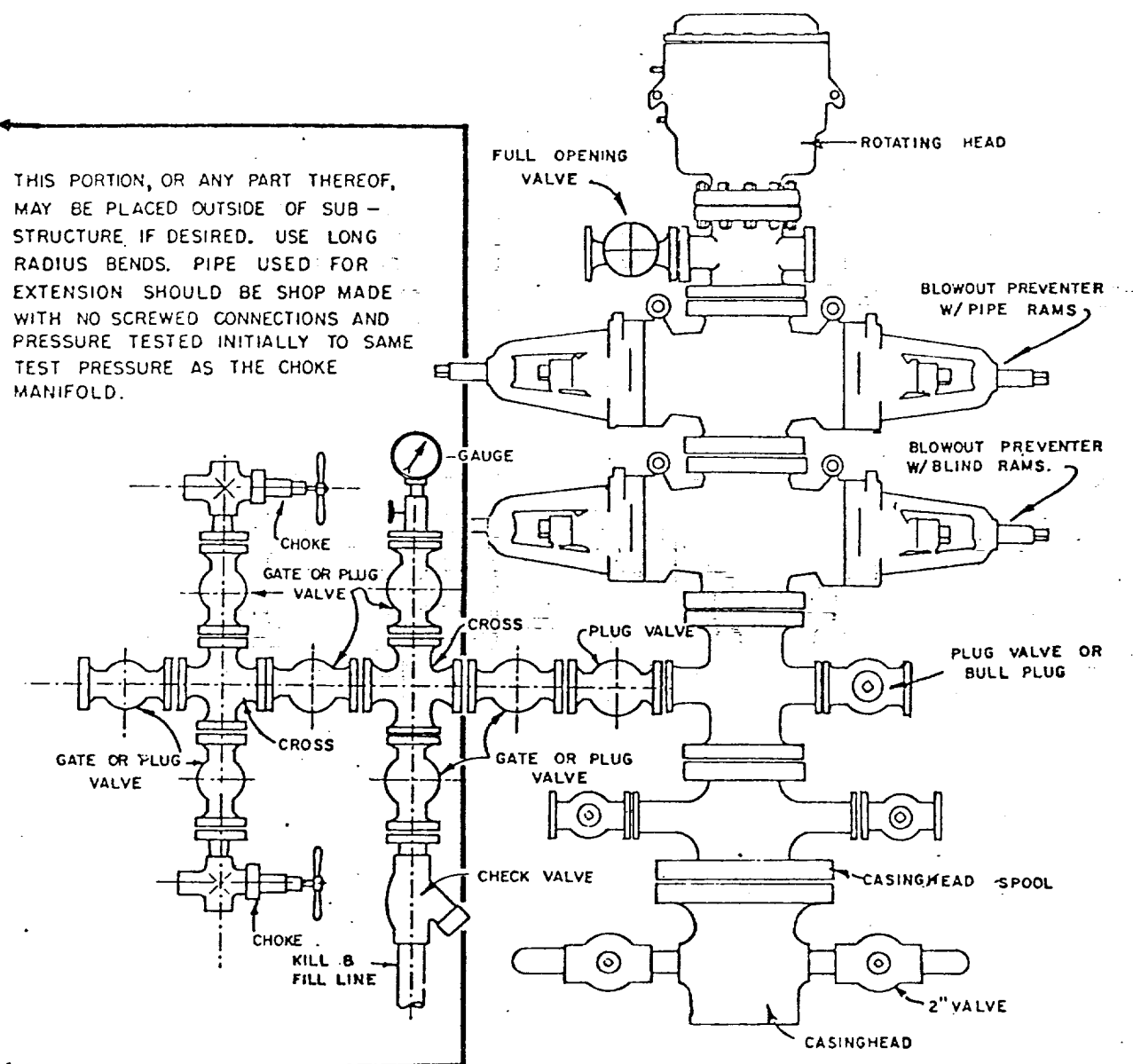
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 4 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 TRIBAL 125 NO. 5
1750' FSL & 1650' FEL, SECTION 35, T25N, R4W
RIO ARriba COUNTY, NEW MEXICO

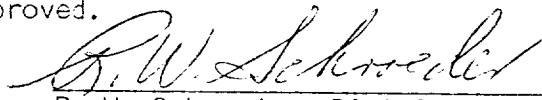
1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build an access road approximately 500 feet in length and 20 feet wide. Road to be bar ditched on two sides.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There are two 380-barrel tanks and facilities located at Jicarilla Apache Tribal 125 No. 1, approximately 3000 feet southwest.
5. Water will be hauled from Cottonwood Water Hole and Tapacito Wash.
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 4-foot cut will be made on northeast 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 a sandy/clay slope in a pinon-juniper thicket with native grasses.

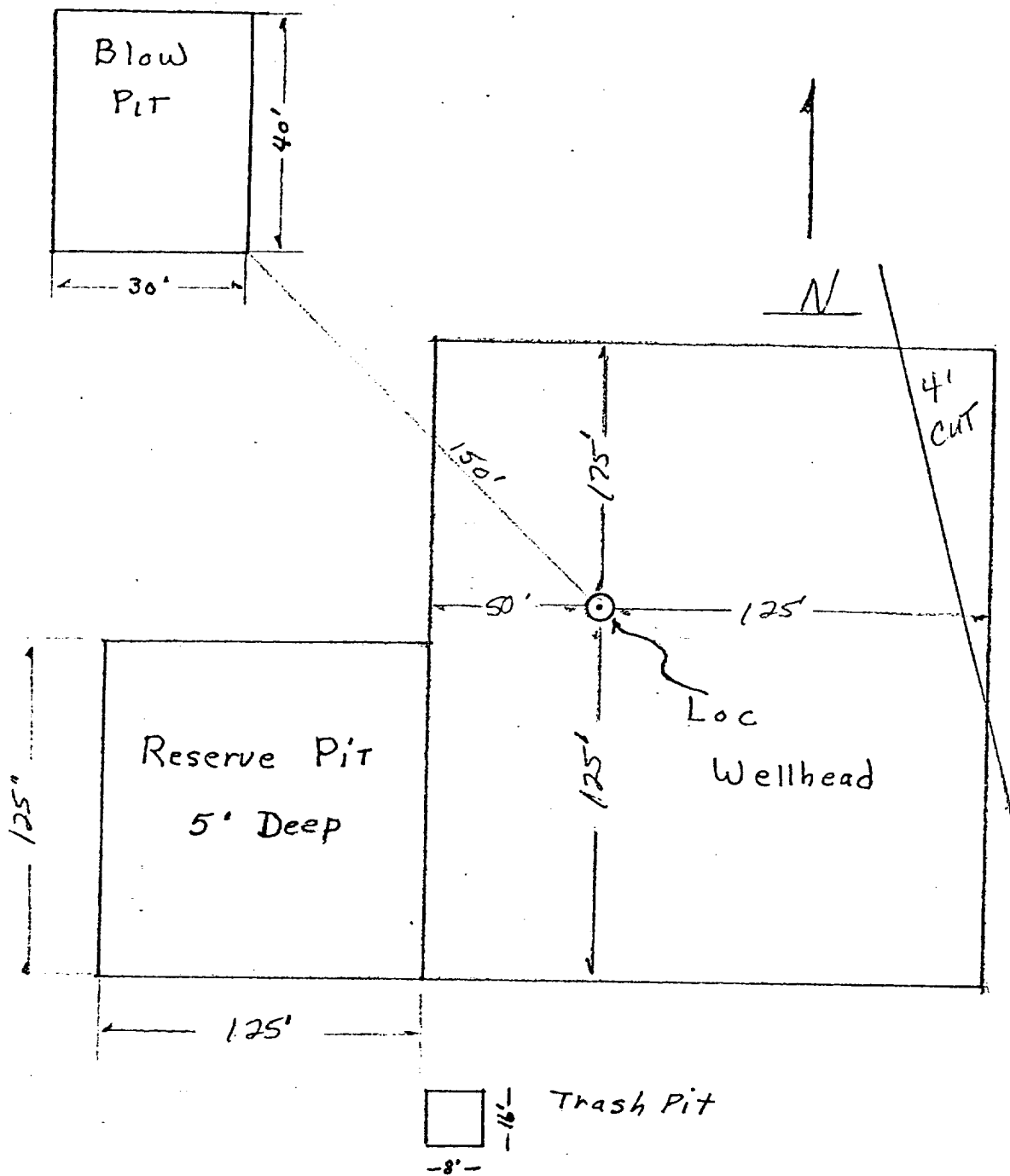
Representatives of the U. S. Geological Survey's Durango Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins.

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 2, 1980


R. W. Schroeder, District Superintendent



Approximately 1.2 Acres

Amoco Production Company		SCALE: NONE
Drilling Location Specs		
JICARILLA APACHE TRIBAL 125 #5		DRG. NO.