SUBMIT IN TRIPLICATE*

Form approved. Eedget Bureau No. 42-R1425.

(Other instructions on reverse side) 30-039-2456 5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

	GEOLOG	ICAL SURVEY	,			Jicarilla Apache 102
APPLICATION	FOR PERMIT TO	O DRILL, DE	EPE	N, OR PLU	G BACK	6. IF INDIAN; ALLOTTES OF TRIBE NAME
la. TYPE OF WORK	L 🗵	DEEPEN			васк []	Jicarilla Apache 7. UNIT AGREEMENT NAME
b. TYPE OF WELL		NFILL			ULTIPLE X	8. FARM OR LEASE NAME
WELL WE	T.L. X OTHER	NI ILL	203	NE LJ Z	056 (23)	Jicarilla Apache 102
AMOCO PRODUCT	LION COMPANY					9. WELL NO.
3. ADDRESS OF OPERATOR	. 1011 001 11 7111					9E
501 Airport [Orive, Farmingto	on, New Mexi	CO any Si	87401 tate requirements.*)	B. S. Mesa Gallup/ Basin Dakota
At surface 970! ESL and	920' FEL, Sectio	on 4. T26N.	R4W		<i>y</i> *	11. SEC., T., R., M., OR BUK. AND SURVEY OR AREA
At proposed prod. zone	· ·	,				SE/4, SE/4, Section 4,
14. DISTANCE IN MILES A	Same	TEN TOWN OF POST	OFFICE	ARIOTA I		F26N, R4W
	A CONTRACTOR OF THE CONTRACTOR	and the second second		 1.1 (2.1) 		Rio Arriba New Mexico
12 MITES SOU	theast of Gober	nador, New r	16. NO	OF ACRES IN LEA	SE 17. NO	O. OF ACRES ASSIGNED : Gallup
LOCATION TO NEAREST PROPERTY OR LEASE II (Also to nearest drig	INE, FT unit line, if any)	9201		2567.94	l	THIS WELL. 322.24 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
18. DISTANCE FROM PROPE TO NEAREST WELL, DE OR APPLIED FOR, ON THE	HLLING, COMPLETED,	2850'	19. PE	8178	20. Ri	Rotary
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)				4	22. APPROX. DATE WORK WILL START*
6967' GL						As soon as permitted
23.	P	ROPOSED CASING	3 ANI	CEMENTING P	ROGRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T	SETTING DEPT	п	QUANTITY OF CEMENT
12-1/4"	9-5/8" (New)	32.3# H-4	10	3001		sx Class "B" w/2% CaCl2-circ
8-3/4"	7" (New)			38441		sx Class "B" 65:35 POZ, 6%
6-1/4" This application	4-1/2" (New)	nfill Basin		8178' ota well is	FLA	,2# med tuf plug/sx,and 0.8% . Tail in w/100 sx Class "B" t-circ.
pursuant to Ord May 22, 1979. of the Natural	er No. R-1670-V This well will	approved by qualify unde	y th er S	e NMOCD on ection 13	340 gel FLA	sx Class "B" 65:35 POZ,6%,2% med tuf plug/sx,and 0.8%. Tail in w/155 sx Class "B"
The gas from th	is well is dedi	cated to El	Pas	so Natural	Nea	t-circ to intermediate csg.
					APP	ROVED
					JUL	2 8 1980
	_			*,	also.	a card
	•	2		N. J.	01	STRIC. ENGINEER
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if at	drill or deepen directions	proposal is to deep ally, give pertinent	en or data	plug back, give da on subsydface loca	ta on present ; tions and meas	productive zone and proposed new productive sured and true vertical depths. Give blowout
24.	1 11		V	7		
SIGNED BE	Fackerly	्राप	i.e	District E	ngineer_	рати Мау 16, 1980
(This space for Fed	eral or State office use)					
MINNER NO				APPROVAL DATE		
PERMIT NO.						
APPROVED BY		Tir	LF			DATS

CONDITIONS OF APPROVAL, IF ANY :

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the cuter houndaries of the Section

		distances must be from th		or Section.	
Operator		Leo			Well No.
	CTION COMPANY		JICARILLA APAC	HE 102	9-E
Unit Letter	Section Tov	vnship	Range	County	
P	ļt	26N	ΤΉ	Rio Arriba	
Actual Footage Loca	ition of Well:				
970	feet from the Sout	th line and	920 feet	from the East	line
Ground Level Elev.	Producing Formatio	n Poo	1		Dedicated Acreage:
6967	Dakota/Ga	llup	Basin Dakota/H	S.S.Mesa Gallup	322.24 Acres
1 Outline the	acreage dedicated	to the subject well l			
2. If more the interest an	an one lease is ded d royalty).	icated to the well, or	utline each and ider	atify the ownership	thereof (both as to working
dated by co Yes If answer i this form if	No If answers and the owner necessary.)	r is "yes," type of co	etc? nsolidation ions which have ac	cually been consolid	dated. (Use reverse side of nmunitization, unitization,
			it, eliminating sucl		n approved by the Commis-
	1			OV	CERTIFICATION
ĺ		DICARILLA A	PACHE RESERVATI	ON	CERTIFICATION
41.52 Acres	41.36 Acres	41.20 Acres	41.04 Acres	tained h	certify that the information con- erein is true and complete to the my knowledge and belief.
	Sec	4		Position DIST Company AMOC	FACKRELL RICT ENGINEER D PRODUCTION COMPANY L 29, 1980 A certify that the well location in this plat was plotted from field
U. T. C.			0.026	is true knowled Date Surve	Professional English

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA APACHE 102 NO. 9E 970' FSL & 920' FEL, SECTION 4, T26N, R4W RIO ARRIBA COUNTY, NEW MEXICO

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	<u>DEPTH</u>	ELEVATION
Ojo Alamo	3414	3566
Kirtland	3536 '	3444
Fruitland	3616 '	3364
Pictured Cliffs	3744 '	3236
Chacra (if present)	1	•
Mesaverde Cliff House Point Lookout	4703 ! 5448 !	2277 · 1532 ·
Gallup	7111 •	- 131 t
Dakota	7939 '	- 959 :
TD	8178	1198 '

Estimated	KB	elevation:	6980
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Drilling fluid to intermediate point will be a fresh water, low solids non-dispersed mud system. Air or gas will be used to drill to TD. Open hole logging program will include logs from TD to below intermediate casing:

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

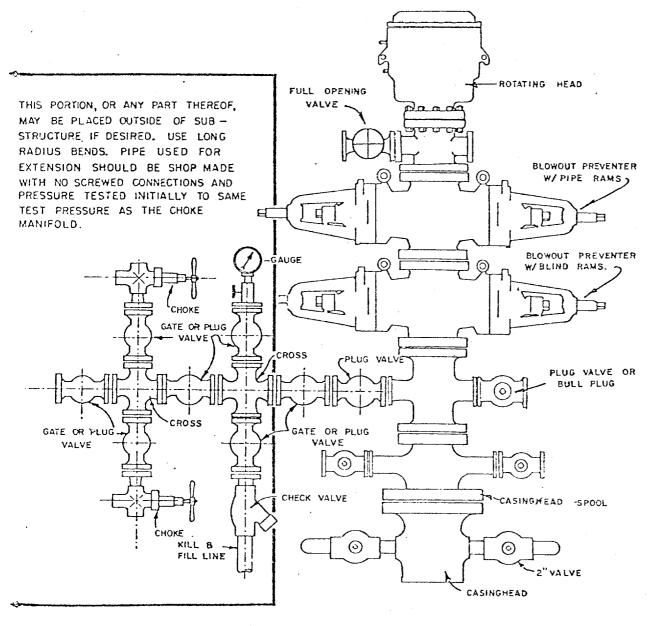
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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 102 NO. 9E 970' FSL & 920' FEL, SECTION 4, T26N, 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 is a 380-barrel tank and facilities located at Jicarilla Apache 102 Well No. 22, approximately 150 feet south.
- 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 10-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.
- II. The general topography is an uneven terrain with sandy clayey loam soil; vegetation consists of sagebrush, cedar, juniper and native grasses.

Representatives of the U. S. Geological Survey's Farmington 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.

DateMay 13, 1980

R. W. Schroeder, District Superintendent

