SUBMIT IN TRIPLICATE*

(Other instructions on reverse side) UNITED STATES

Form	approved		
Budget	Eureau	No.	42-R142

UNITED ST DEPARTMENT OF T	-	36-639-22596 5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL S		Jicarilla Contract 143
APPLICATION FOR PERMIT TO DRI		
APPLICATION FOR FERMIN TO DRI	EL, DEGLEY, ON PLOO B	Jicarilla Apache
DRILL ☐ DEEP	PEN [] PLUG BAC	K T. UNIT AGREEMENT NAME
b. TYPEOP WELL OLS WELL OTHER OTHER	SINGLE MULTIPE	S. FARM OR LEASE XAME
NAME ON DESCRIPTION OFFICE OFFICE OF STREET	29.13 22 29.11	Jicarilla Contract 148
AMOCO PRODUCTION COMPANY		9. WELL NO.
SOL Airport Drive Farmington New	Mexico 8701DF	21 10, FIRED AND POOL, OR WILDCAY
SOL Airport Drive, Farmington, New Tocarrow or walk (Report location clearly and in accordance	uce with any State requirements.	Valoreto Chacra & M
1850' FNL x 1560' FWL Section 24, T	25N RSW NOV	11. SEC. T. P. M. 07 BLE
Ve brobased filter rous	2311, 1(31)	100J.
SHIPS IN NOLES AND DESCRIPTION FROM NEAREST TOWN	OR FOST OFFICE FASAM.	SE /4 NW/4 Section 24 T25N R5W
17% miles New of Counselor, New Mexi	CO	Rio Arriba New Mexico
5. DISTANCE FROM PROFUSEO* LAMBATION TO SEAREST	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL.
(Also to nearest (rig. unit line, if any) 1560	2560	160
S. DISTANCE THAM TREMESED LOCATION* TO NUMBER SEEL FRUILING, COMPLETED, 60 APPLIED FOR, ON THIS LEAST, FT. 2011	19. PROPOSED DEPTH	20. BOTARY OR CABLE TOOLS
C. services (Show whether DF, RT, GR, etc.)	• 4034'	Rotary 122, APPROX, DATE WORK WILL START?
6340' OL	·	As soon as permitted
PROPOSED	CASING AND CEMENTING PROGRA	M A ROLL BURNES
SIZE OF HOLD SIZE OF CASING WEIGH	RITING PURITIES TODE NATUR	QUANTITY OF CEMEN?
12-1/4 8-5/8 (new) 24# K		315 sx class "8" w/2% CaCi2-circ.
7-7/6 4-1/2 (new) 10.5#	K-55 4034'	910 sx class "8" 50:50 POZ, 63 gel.
		2# med tuf plug/sx and .8% FLA. Tail in w/100sx class "B" Neat-circ.
Among proposes to drill the above w	ell to further develop t	the Otero Chara reserves.
The well will be drilled to the sur Then be drilled to TD with a low so	taco casing point using Lide pondispensed rides	native mud. The well will
will be based on open hole logs. A	copy of all logs will a	os filled upon completion
Additional Information required by	NTL-6 for the application	on to drill and a multi-
point surjace use plan are attached	•	
The ges from this well is not dedic	ated to a das sales cont	
	5	
	•	NOV
		OIL CO. 9 1980
		DIST COM
coronnata a concurs escape program: If proposal is	to deepen or plug back, give duty on pr	NOV 19 1980 OIL CON. COM. Seat reductive who and respond new productive dimeasure and true product depths. Give blowout
sone. If provided is to drill or deepen directionally, give presenter programs if any.	ertinent duin on subsurface Leculous am 	d measured and true vertical depths. Give blowout
APPROVED		
AS AMENDED	ams District Enginee	er October 29, 1980
Oblis space for Lederal of SNITURE #STORD		
Since Warmson	APEROVAL DAVE	
JAMES F. SIMS (We should be stated to be a seen as and	
DISTRICT ENGINEER	TITE	PATE
and the second of the second s		

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 cuter boundaries of the Section.

Operator			Lease				Well No.
•	ITOADTI A COMBDACE I		RACT 11	18	21		
Unit Letter	Section	Township	Range		County		
F	24	25N		W	Rio	Arriba	
Actual Footage Loc			2560			TT	
1830		North line or	nd 1560 P∞1	fee	t from the		line
Ground Level Elev. 6840	Producing For Chacra	mation	1	a Chacra	C	Deals	cated Acreage: 160 Acres
2. If more th interest an	an one lease is		ell, outline	each end ide	ntify the	ownership thereo	f (both as to working
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,							
	·					ts, has been appr	oved by the Commis-
15601	 		 			toined herein is	
	 Se	c.	 			AMOCO PROD Date JUNE 3, 19	OUCTION COMPANY 980
	 	214		$O_{I_{\mathcal{L}}}$	MOV 23	shown on this p nates of actual under by super- is true and co knowledge and l	O LAD
0 300 030	90 1220 1650 198	0 2310 2640 20	DDD 1500	•	(May 27 19 Registered Protes and/of Land Surve Fren B Certification No. NE 3950	sional than her you will be seen that the seen seen seen seen seen seen seen se

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 No. 21 1830' FNL & 1560' FWL, SECTION 24, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

The geologic name of the surface formation is the Teritiary San Jose

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

FORMATIO	<u>DN</u>	DEPTH		ELEV	ATIO	N
Ojo Alamo		2504	1		1349	,
Kirtland		2704	•	2	1149	ŧ
Fruitland		2884	7	3	969	•
Pictured Cliffs		3064	1	3	789	Ŧ
Chacra (if	present)	3944	•	. 2	909	1
Mesaverde	Cliff House Point Lookout		7			1
Gallup			7			Ţ
Dakota			1			1
TD		4034	Ť	2	.819	1

Estimated KB elevation: 6353

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:

FUG-ONL-OR

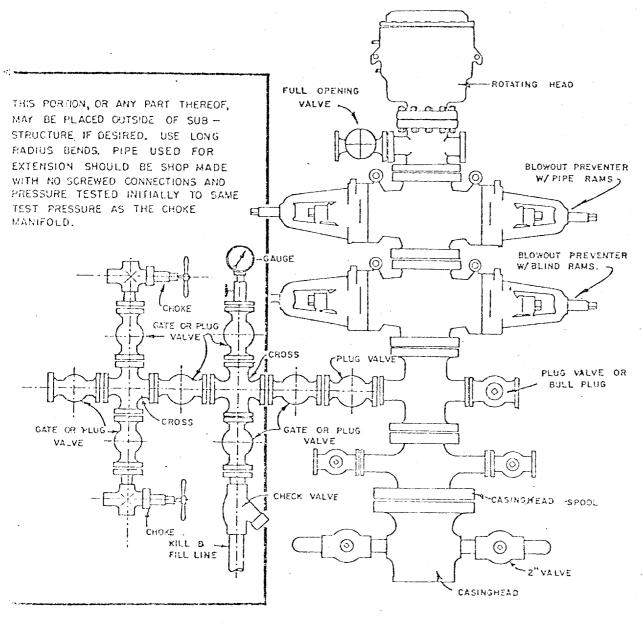
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Ambero's standard blowout prevention will be employed (see attached drawing).

in the post, 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 CONTRACT 148 NO. 21 1830' FNL & 1560' FWL, SECTION 24, T25N, R5W 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 tanks and facilities located at Jicarilla Contract 148 No. 3, approximately 500 feet northeast.
- 5. Water will be hauled from Tapacito Water Hole.
- 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 east 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 a canyon bottom with westerly drainage and sandstone outcrops, with soil a sandy clay loam, vegetation consists of brome, sagebrush, greasewood, prickly pear 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 San Juan College.

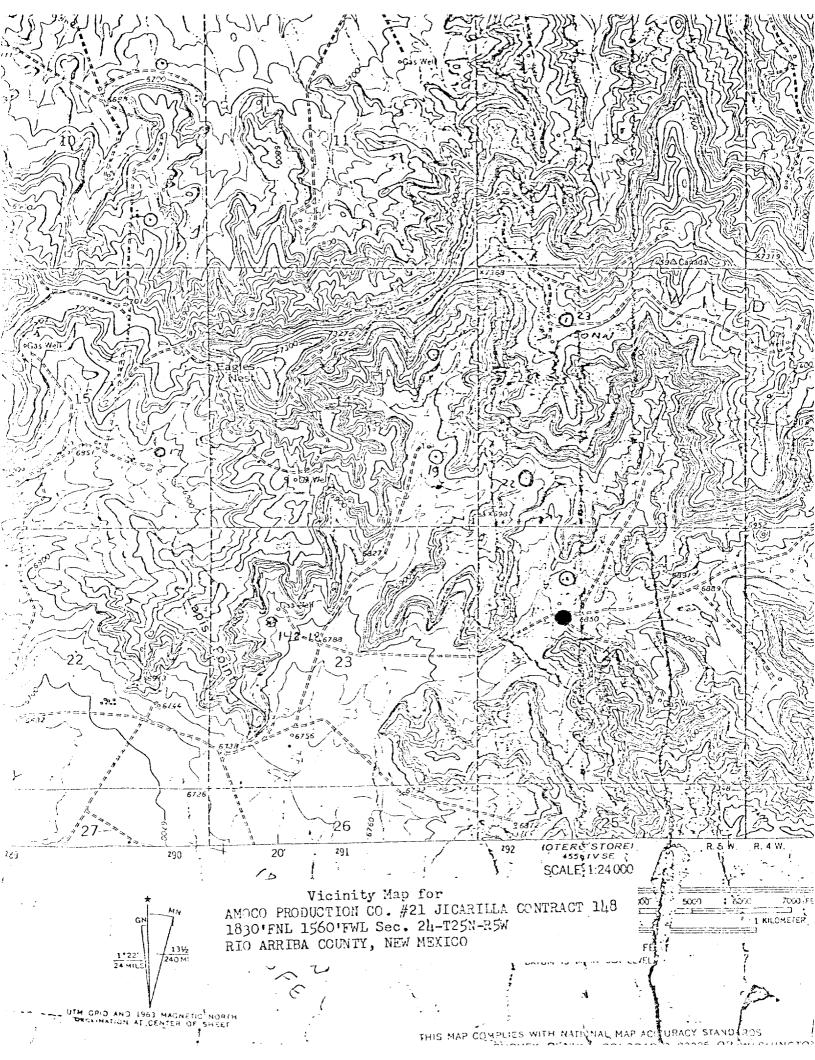
12. Operator's Representative: R. W. Schroeder

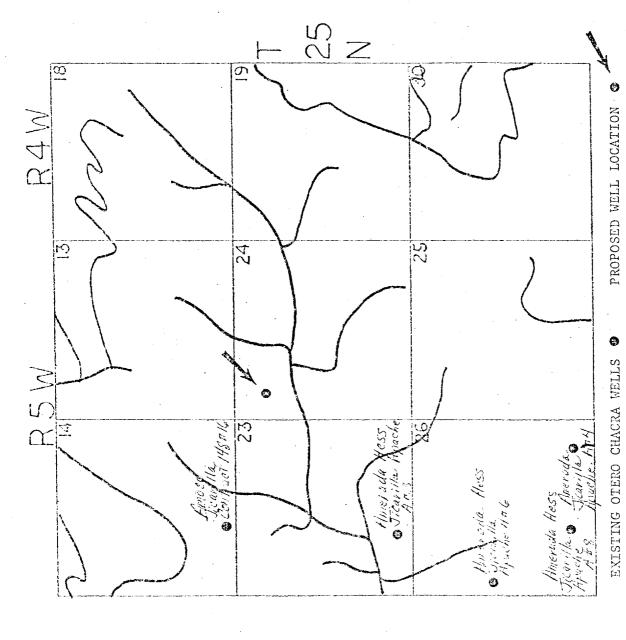
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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.

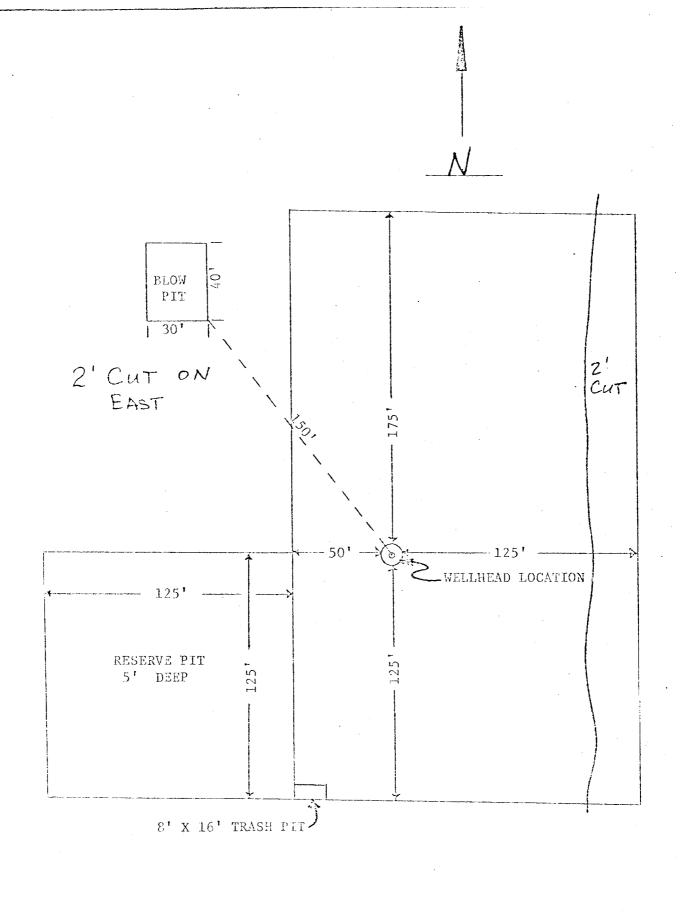
Date <u>October 27, 1980</u>

R. W. Schroeder, District Superintendent





ROADS



APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=50"
DRILLING LOCATION SPECIFICATIONS	
JKARILLA CONTRACT 148 NG. 21	DRG. NO.