la. TYPE OF WORK

b. Type of well

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

12-1/4"

WELL

15. DISTANCE FROM PROPOSED®
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest delg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

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

SUBMIT IN TRIPLIC

rm 9=331 C May 1963)						HT IN TR		Form approv Budget Burea	ed. u No. 42-R1425.	
	בי אורי אורי		D STATES OF THE II			reverse sid		30 132.	72569	
					JK			5. LEASE DESIGNATION		
		GEOLOGI	CAL SURVE	ΞΥ				Jicarilla Co		
APPLICATI	ON FOR PE	RMIT TO	DRILL, I	DEEPEN	I, OR P	LUG B	ACK_	6. вымых, астотте Jicarilla Ар		
TYPE OF WORK	DRILL 🛛		DEEPEN [PL	UG BAC	K 🗆	7. UNIT AGREEMENT		-
TYPE OF WELL	GAS []			SING		MULTIPI	LE	S. FARM OR LEASE NA	(ME	_
NAME OF OPERATOR	WELL IX	OTHER		ZONE		ZONE	'X'	Jicarilla Co	ntract 155	
	ODUCTION COM	MPANY						9. WELL NO.		-
ADDRESS OF OPERA			,					31	it	
501 Airpo	ort Drive, F	Farmingto	on, New M	exico	87401			10. FIELD AND POOL,		-
LOCATION OF WELL	(Report location c	learly and in	accordance wit	h any Sta	te requireme	ents.*)		Otero Chacra) -
	NL × 880' FE	-1					,	AND SURVEY OR	bdr? REA	
At proposed prod.								SE/4 NE/4, S	ection 29	
				n overens				T26N R5W	T 1 12 . cm . mp	
	LES AND DIRECTION									
17 miles:	southeast of	Gobern	ador, New	Mexic	O ACRES IN	LEASE	1.17. No. (I Rio Arriba DE ACRES ASSIGNED	INM	•
PROPERTY OR LEA	AREST ASE LINE, FT.	88	01	2477	.56		TO T	160 160		
DISTANCE FROM	drlg, unit line, if a	*		19. PROP	OSED DEPTH		20. ROTA	RY OR CABLE TOOLS		-
TO NEAREST WELL OR APPLIED FOR, ON	LL, DRILLING, COMPL	ете р. 63	5 '	390	3 ′		İ	Rotary		-
ELEVATIONS (Show	whether DF, RT, C	GR, etc.)		<u>'</u>				22. APPROX. DATE W	ORK WILL START*	-
6459' GL								As soon as	permitted	
		PRO	OPOSED CASI	NG AND O	CEMENTIN	G PROGRA	AM			
SIZE OF HOLE	SIZE OF C	ASING	WEIGHT PERF	оот	SETTING	DEPTH		QUANTITY OF CEMI	ENT	-
12-1/4"	8-5/8"	(New)	24.0# K-	55		300'	315 s	x Class B x 29	CaCl2-Cir	- С
7-7/8"	5-1/2"			(-55		3 <u>903'</u>		_L: 250_sn/Cla		
								<u>2</u> : 435 sx[Cla		
	1	1		· I				1, 2# med tuf		
Moco propos	ses to drill	the abo	ve well t	o furt	her dev	/elop	FLA.	Tail in w/100) sx Cl B n	eat-circ
, ,	nacra reserv									e •
ırface casi	ng point us	ing nati	ve mud.	The we	ell wil	*hen	be.	- by -™	Fool at 297	5'
	D with a lo					em:				
	design will					1. SARY				
.,	ll be filed	,	•			of of his	F IP 100.	2		
	NTL-6 for t plan are at		carron ic	o ariii	and 4	GHE COP	giniye. X. An		2	
irrace use	pron are ar	rached.			,	DIS	L 3	. /		
ne gas from	n this well	is dedic	ated to E	El Pasc	Natura	al Cas	∞.			
	ect to administrati	ve		DRIL Sub	LING OPER	RATIONS A	UTHORIZE	D ARE		
peal pursuant to	30 CFR 290.			"GEN	IERAL REQ	UIREMENT	c with At	TACHED		
APOVE SPACE DES	CRIBS PAOPOSED PEC	GRAM: If pro	oposal is to dee	pen or plu	g back, give	e data on p	resent proc	luctive zone and propo	sed new productiv	£:
ie. If proposal i eventer program,	s to drill or desper	directional;	, give pertinen	t data on	subsurface	locations at	nd measure	d and true vertical dep	etas. Give blower	t

This action is subject to administrative appeal pursuant to 30 CFR 290.

surface use plan are attached.

Original Signed By W. L. Peterson		District Engineer		NA 1980
(This space for Fedgin PROVED				
		APPROVAL DATE		
CONDITIONS OF APPLICATIONS OF	_ THEO		_ DATE _	
DISTRICT ENGINEER				
et S.m		MMOCC"		

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 155 NO. 31 1620' FNL & 880' FEL, SECTION 29, T26N, R5W 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:

FORMATION	DEPTH	ELEVATION
Ojo Alamo	2250 '	4222 1
Kirtland	2450 '	4022 1
Fruitland	2645 1	3827 '
Pictured Cliffs	2825 •	3647 '
Chacra (if present)	3720 •	2752 1
Mesaverde Cliff House Point Lookout	. †	r r
Gallup	1	ı
Dakota	•	t
TD	3903 •	2569 '

Estimated	KB	elevation:	6472	t

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:

D1L-SP-GR

FDC-CNL-GR

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).

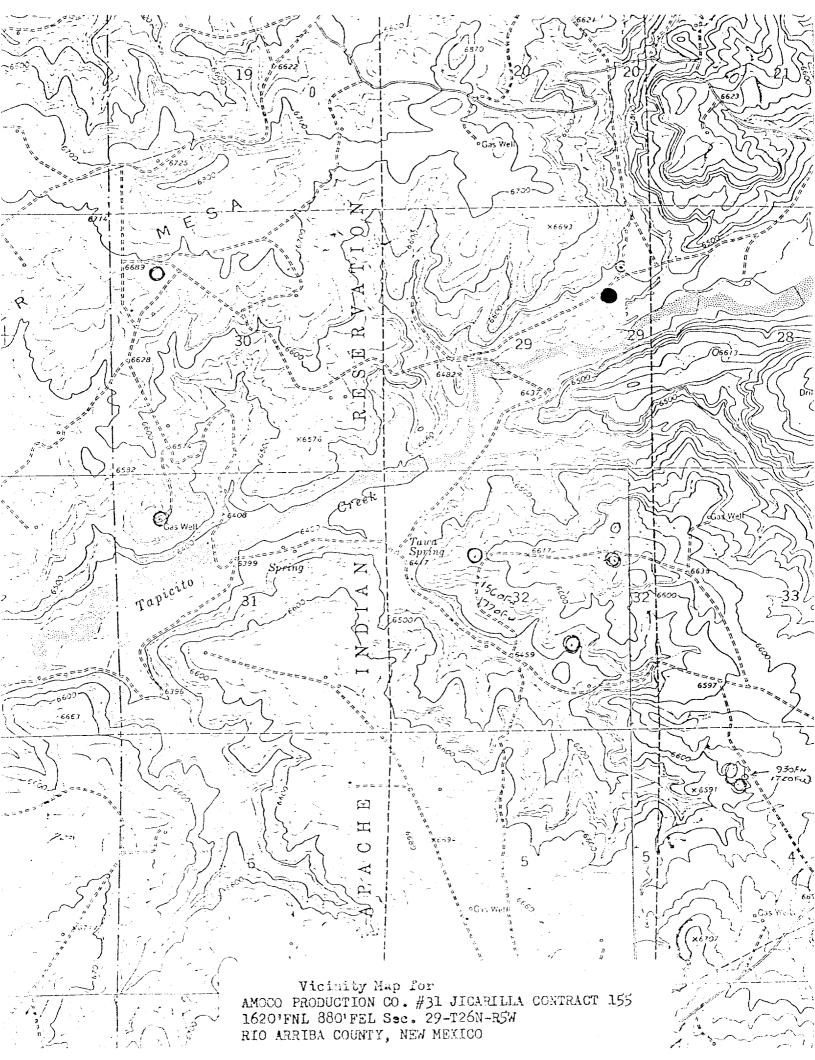
In the jast, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO HERSY AND MINERALS DEPARTMENT

P. O. DOX 2088 SANTA FE, NEW MEXICO 87501 Form C-107 keylsed 10-1-78

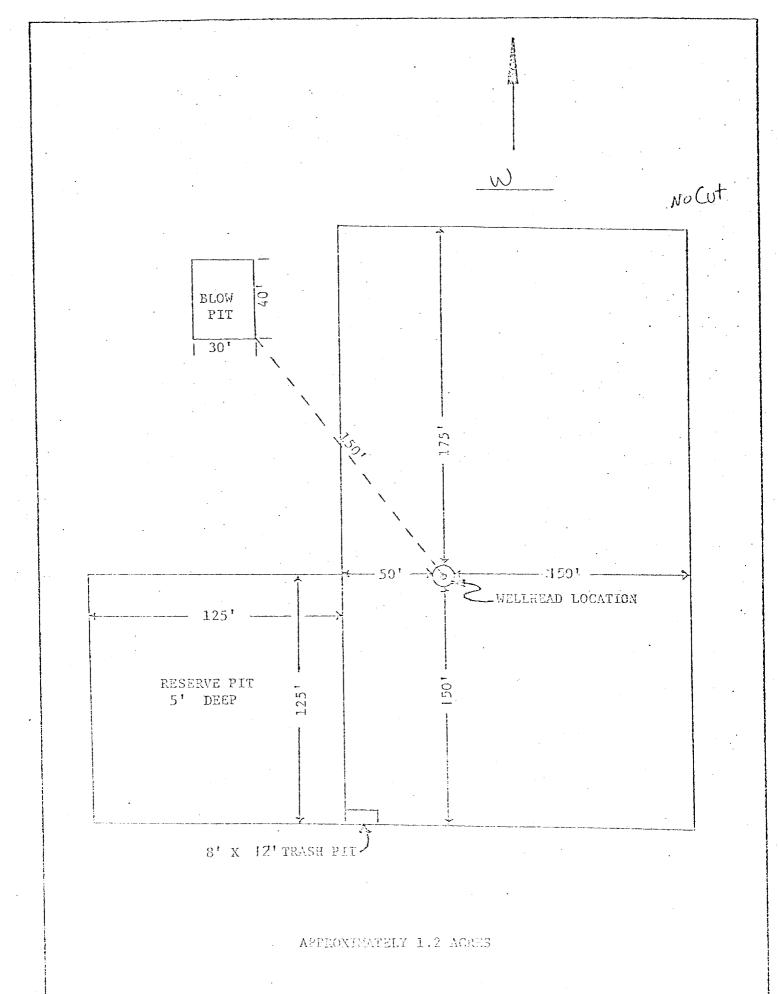
	/	ill distances must be fr	om the cutes	tiounderles	ed the Section	١.	
Operator			Lease				Well No.
AMOCO PRODUCTION COMPANY			JICA	RILLA CO	NTRACT 15	5	31
Unit Letter Secti		Township	Rænge		County		
Н 2	9	26N	5W		Rio A	rriba	
Actual Footage Location o	of Well:						
1620 feet	from the Nor	th line and	880	f	eat from the	East	line
Ground Level Elev:	Producing Form	ation	P∞1So.	Blanco P	Pictured C	liffs/	Dedicated Acreage:
6459	Pictured	Cliffs/Chacra	Oter	o Chacra	1		160 Acres
2. If more than o	ne lease is	ed to the subject w					the plat below.
dated by commi	e lease of di unitization, w No If an no," list the c	nitization, force-pool	ing. etc? of consolid	lation			of all owners been consoli-
No allowable w	ill be assigne						mmunitization, unitization, n approved by the Commis-
		PAGE AT BURNES OF THE					CERTIFICATION
	 			9 1520	880'	Name R.A. I Position DISTRI Company AMOCO Date	r certify that the information connected is true and complete to the my knowledge and belief. DOWNEY ICT ENGINEER PRODUCTION COMPANY MBER 11, 1980
		29				shown of notes of under in is true knowled. Date Surv. July Registere	by certify that the well location on this plat was plotted from field of actual surveys made by me or my supervision, and that the same and correct to the best of my dge and belief. 29, 1980 d Professional Engineer and Surveyor
	 	le: 1"=1000"	1			Fred Centificant	e No.



EXISTING OTERO CHACRA WELLS

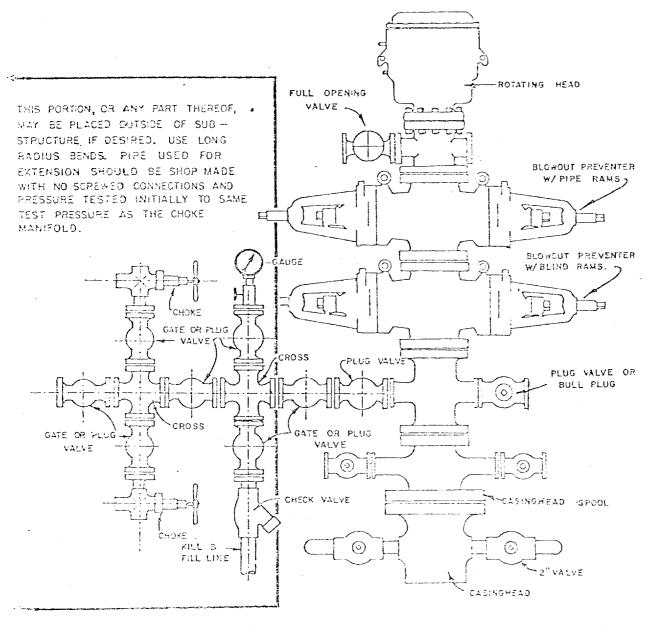
PROPOSED WELL LOCATION

• EXISTING SO. BLANCO PICTURED CLIFFS WELLS



Amoco Production Company	scala-1"=50"
DRILLING LOCATION SPECIFICATIONS TICANTILL CANADAL ISS NA RI	DRG.

- 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 firtings 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 # 120

EXHIBIT D-4

OCTOBER 16,1969

Operation of 80% by closing both pipe and blind rans 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 155 NO. 31 1620' FNL & 880' FEL SECTION 29, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

- The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build any access road.
- Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- There is a 380-barrel tank and facilities located at Jicarilla Contract 155 No. 19 (A-29-26-5).
- 5. Water will be hauled from 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.
- There are neither airstrips nor camps in the vicinity.
- The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. No cut is necessary.
- Restoration of the surface will be accomplished by cleaning up and leveling 10. upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Indian Affairs, Dulce.
- The general topography is canyon bottom with southwesterly drainage and alluvial surface deposits, with a sandy clay loam soil. Vegetation consists of sagebrush, rabbit brush, and natural grasses.

Representatives of the U. S. Geological Survey's Farminaton Office and the Bureau of Indian Affairs, Dulce, inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archeologist from San Juan College.

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

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 50! Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspeched 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.