SUBMIT IN TRIPLICATE*

Form approved.
Rudget Rureau No. 42-R1425.

(0)

ther instructions on	auget	Darcau	110.	47-10147
reverse side)	<u>0-0</u>	39-	2	145

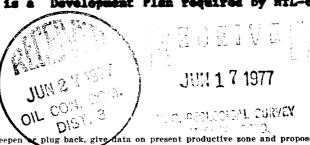
	DEPARTMENT	OF THE INTER	RIOR		5. LEASE DESIGNATION	AND SERIAL NO.	
	GEOLOG	GICAL SURVEY			87079756-A		
APPLICATION	N FOR PERMIT T	O DRILL, DEEPI	N, OR PLUG I	BACK_	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
la. TYPE OF WORK	ILL 🕱	DEEPEN	PLUG BA	CK 🗌	7. UNIT AGREEMENT 1	VAME	
b. TYPE OF WELL		ei	NGLE MULTI	IDIJE 🗀	San Juan 29-4		
MELL G	AS VELL OTHER		NE ZONE	X	8. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR							
	CTION COMPANY	<u> </u>			9. WELL NO.		
3. ADDRESS OF OPERATOR					21		
501 AIRPORT	DRIVE PARMING	ON, NEW MEXICO	87401		10. FIELD AND POOL,		363
4. LOCATION OF WELL (R At surface	deport location clearly and	in accordance with any s	state requirements.			Pictured &	
1715	YSL & 1785 WL,	Section 5, T-	29-N, R-4-W		AND SURVEY OR A	REA	
At proposed prod. zor	ne				W/4 SW/4 Sec	_	
SAME	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFIC	e *		12. COUNTY OR PARISE	1 13. STATE	
						30 30 0	
15. DISTANCE FROM PROP	ly 7 miles Horti	east of Gobern	OF ACRES IN LEASE		Rio Arriba OF ACRES ASSIGNED	Hew Mexico	
LOCATION TO NEARES PROPERTY OR LEASE	T LINE, FT.			TO T	HIS WELL		
(Also to nearest drl 18. DISTANCE FROM PROD	g. unit line, if any)	1715 19 P	2560 COPOSED DEPTH	20. ROTA	HV 160 PC		
TO NEAREST WELL, I OR APPLIED FOR, ON TH	ORILLING, COMPLETED,				_		
21. ELEVATIONS (Show wh		let Well	6630	<u> </u>	22. APPROX. DATE W	ORK WILL START*	
ZI. ELEVATIONS (Show WI	leuter Dr, Iti, Gis, eac.)	****** *** ***			A	17	
23.		7491' est. GL			August, 197		
417.	P	ROPOSED CASING AND	CEMENTING PROGR	KAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT	

UNITED STATES

204

4-1/2" New

The above well is being drilled to further develop the Blanco Messwerde field and the East Blanco Pictured Cliffs field. The well will be drilled to the intermediate casing point with a low solids mon-dispersed mad system. The well will them be drilled with gas to TD. Completion designs will be based on open hole logs. This acresge is not dedicated. Attached is a Development Plan required by MTL-6.



975 ax

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen r 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 subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED NIGHT	TITLE	Area Engineer	DATE 6/15/77
(This space for Federal or State office use)		APPROVAL DATE	
APPROVED BY	TITLE		DATE

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

 			1,	80		Well No.
Operator	ation Come		Lea		ini+	21
Unit Letter	oco Production Company San Juan 29-1 Unit etter Section Township Range County					
K	5	29N		Τ'n	Rio	Arriba
Actual Footage Loca						7.7a
1715	feet from the S	outh line or	nd Poo		from the	West line Dedicated Acreage:
7491	Mesa Ve			lanco Mesaverd	_ <i>⊙</i> ∧′	320 Acres
						marks on the plat below.
1. Outline the	e acreage dedica	ited to the subject		,, colored penetr e		F
	an one lease is id royalty).	dedicated to the w	ell, ou	itline each and ide	ntify the	ownership thereof (both as to working
			. , ,,		1	
					nave the	interests of all owners been consoli-
dated by c	ommunitization, i	unitization, force-po	oring.	5 i.e.:		
Yes	☐ No If a	nswer is "yes," type	e of co	nsolidation		
					. 11 1	
		owners and tract de	escripti	ions which have ac	tually be	een consolidated. (Use reverse side of
this form i	f necessary.)	ed to the well until	all int	erests have been o	onsolida	ted (by communitization, unitization,
forced-poo	ling, or otherwise	or until a non-stand	dard un	it, eliminating suc	h interes	ts, has been approved by the Commis-
sion.	0,	-		.		-
						CERTIFICATION
1						
	Ì				. 1	I hereby certify that the information con-
	. 1		**	·		tained herein is true and complete to the
	I ·			周月71977		best of my knowledge and belief.
	1	45				749.700 - Chance
	1 18 1	# 1		nentablicat curvex	<u> </u>	Name
	+ 7/-//		7		<u>-</u>	H. D. MONTGOMERY
	- Winn		1	i I		Position AREA ENGINEER
	1	- Si	i			Company
	1 1	COIL				AMOCO PRODUCTION COMPANY
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1		Date 1077
	Į.	Soo				JUNE 8, 1977
		Sec 5				
	i t			†		I hereby certify that the well location
	İ			Ī		shown on this plat was plotted from field
	Į,			Ì		notes of actual surveys made by me or
17851				i		under my supervision, and that the same is true and correct to the best of my
	; T			1		knowledge and belief.
L	¦ _					
	,			İ		January .
	; _			1		Date Surveyed
	15			1		June 7, 1977
	17.			1		Registered Professional Engineer and/or Land Surveyor
	<u> </u>			l L		2 stopen a
ž			K	3-52: 242-		Fred B. Kerr Jr.
					TUTE	
10 330 660	90 1320 1650 19	80 2310 2640	2000	1500 1000 !	500	。 <u>3950 </u>

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-101 Supersedes C-128 Effective 1-1-61

All distances must be from the outer boundaries of the Section

							Well No.
Operator	Amoco Production Company San Juan 29-4 Un		YT_21		21		
Amoco Produ	Section Compa	Township		Hange County			
K	5	29N		Lw .	Rio	Arriba	
Actual Footage Loc		<u> </u>					·
1715	feet from the				feet from the	West	line
Ground Level Elev.	Producing	Formation tured Cliffs	Poo	o East Blanco F	Pictured (160 Acres
7491							
1. Outline th	e acreage dedi	icated to the subj	ect well	by colored penci	1 or nachure	marks on the pra-	below.
	an one lease nd royalty).	is dedicated to t	he well, o	utline each and	identify the	ownership thereof	(both as to working
		f different owners , unitization, force			ll, have the	interests of all o	wners been consoli-
Yes	□ No I	answer is "yes;"	type of co	onsolidation			
If anomae	ie 44no" list tl	ne owners and trac	et descript	ions which bave	actually be	en consolidated.	(Use reverse side of
this form i	f necessary.)						
No allowal	ble will be assi	gned to the well u	ntil all int	terests have bee	n consolida	ted (by communit	ization, unitization,
·	ling, or otherwi	se) or until a non-s	tandard u	nit, eliminating	such interes	ts, has been appro	oved by the Commis-
sion.						.	
	!			1		CER	TIFICATION
	 		31	ા લું કારા છે. હાર્ય 1 .7 1977		tained herein is	that the information con- true and complete to the ledge and belief.
	 		:	TO A CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE C	Y	Nome Name	7.6
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	1			1	\$	AREA ENGI	NEER
	1			! 		Company AMOCO PRO	DUCTION COMPANY
	i			1		Date Date	DOUTEN COLLINI
	ĺ			ſ		JUNE 8, 1	977
		Sec					
17851	 	5		 		shown on this p notes of actual under my superv	y that the well location lat was plotted from field surveys made by me or vision, and that the same rrect to the best of my
				 		knowledge and l	belief.
	+						
				ł		Date Surveyed	
	151			1		June 7, 19	
	17			1		and/or Land Surve	
				†		Fred B. Ke	Tr.Jr.
						Certificate No.	
330 660	-90 1320 1650	1980 2310 2640	2000	1500 1000	500	3950	Million Tolk

SAN JUAN 29-4 NO. 21 1715 FSL & 1785 FWL, SECTION 5, T-29-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO 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.

JUNE 15, 1977

Date

AREA SUPT.

Name and Title

JUN 1 7 1977

MANAGES HOSESTHES

DEVELOPMENT PLAN SAN JUAN 29-4 NO. 21 1715 FSL & 1785 FWL, SECTION 5, T-29-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

The proposed location has sagebrush with open stands of ponderosa pine, pinon, juniper, and oak. Galleta grass and snakeweed were also noted growing in the area. The geological name of the surface formation is Tertiary San Jose. A new 2700' X 18' road will be required. No construction materials will be used for building the location; dirt will be leveled at the well site. Verbal approval of the drill site has been obtained from Mr. Jim Tinsfield and Mr. Charles Laing of the U. S. Forest Service, Mr. Carl Barrich from the U. S. G. S., and Dabrey Ford Archaeologist.

Water will be hauled from either Crebesto Wash which is approximately 16 miles on existing roads or the old ranger station at the intersection of forest road 310 and State Highway 64, approximately 10 miles from the location on existing roads. Drilling fluids to the intermediate casing point will be a low solids non-dispersed mud system. Gas will be used to drill from the intermediate casing point to TD. Upon completion the location will be cleaned up and leveled. Drilling mud and water will be hauled away and the reserve pit backfilled. Attached is the seeding plan to be followed for this well.

There are neither airstrips nor campsites in the vicinity. The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	DEPTH	ELEVATION
Pictured Cliffs	4163'	3340
Cliffhouse	6256 '	1247
Menefee	6323 '	1180
Point Lookout	6563'	940

Estimated KB elevation: 7503

Casing design:

EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
250 ' 4440'	9-5/8" 7"	32.3# 20#	12-1/4" 8-3/4"	280 sx - Class "B", 2% CaCl ₂ . 975 sx - Class "B", 50:50 Poz, 6% Gel, 2# med Tuf Plug per sack.
6630'	4-1/2"	10.5#	6-1/4"	370 sx - Class "B" 50:50 Poz. 2% Gel, 2# Med. Tuf Plug per sack.

Amoco's standard llowout prevention will be employed, see attached drawing for blowout preventer design.

Amoco plans to run the following logs: 4440-350' Induction Electric, 4440-3000' Compensated Density, 6630-4440' Induction Gamma Ray, and 6630-6000' Compensated Density.

No abnormal pressure, temperatures, or hydrocarbon gas is expected while drilling this well.

Our proposed starting date is August 1, 1977, and a three-week operation is anticipated.

JUN 1 7 1977

UN OF PROGRESS CANARA

SEEDING PLAN

1. TIME:

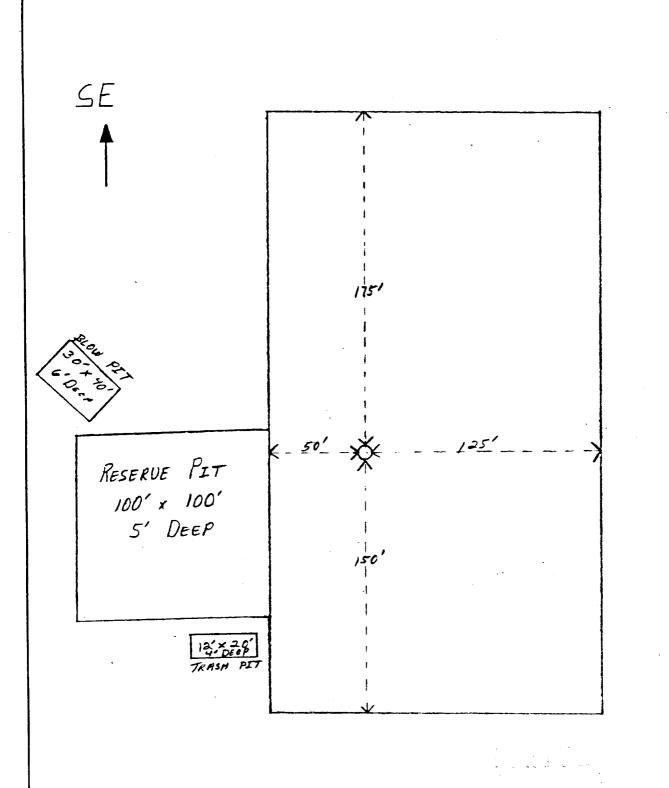
All seeding will take place between July 1, and September 15, 1978, or as required by the U. S. Forest Service.

2. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, no up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

3. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

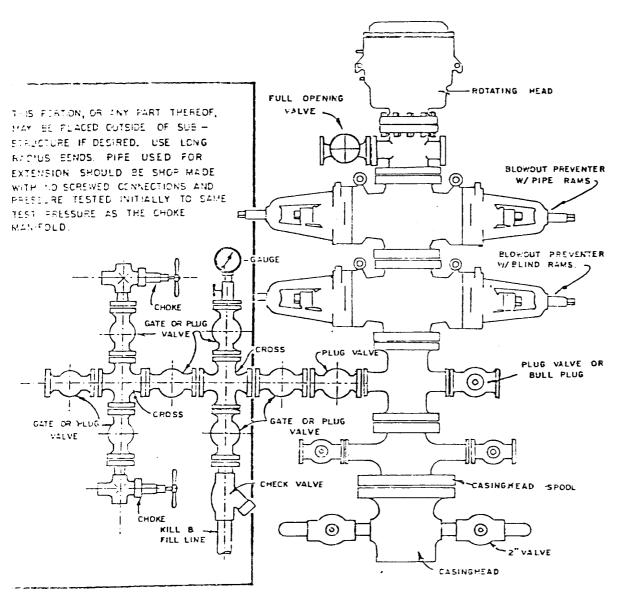
Crested Wheatgrass	0.71 lbs.
Russian Wild Rye	0.86 lbs.
Ladak Alfalfa	0.50 lbs.
Sweet Clover	0.50 lbs.
Perennial Rye Grass	0.57 lbs.
Western Wheatgrass	1.43 lbs.
Smooth Brome	1.14 lbs.
Intermediate Wheat	0.91 lbs.
Pubescent Wheatgrass	1.09 lbs.



JUN 1 7 1977

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Amoco Production Company	SCALE:
San Juan 29-4 Well =21 Sec. 5-Tay N - R4W Ric Herike Courty New Mexico	DRG. NO.



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1989

JUN 1 7 1977

Warran Tanggaran Sabaran

