SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bareau No., 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

		ED STATES		ion	reverse si	de)	H - C421 - 74 8 75
	DEPARTMENT			IUR			5. LEASE DESIGNATION AND SESTAL NO.
		SICAL SURVI					SF-078903-B 6. IF INDIAN, ALLOTTED OR TELES NAME
APPLICATION F	OR PERMIT T	O DRILL, I	DEEPE	N, OR F	PLUG 3	ACK	O. 15 INDIAN, ADDITION OR THIRD NAMES
1a. TYPE OF WORK DRILL		DEEPEN [ום	UG BAG	57 D	7. USIT AUBREMENT NAME
b. Trep or well	t.a	DELFLINE			.00 0/1	-1\ <u> </u>	Gallegos Canyon Unit
WELL WELL	asuro E	NFILL	Z0 Z1:	Se S	MULTIP ZOND	🔲	S. FARM OR LEASS NAME
2. NAME OF GREEATOR							
AMOCO PRODUĆI	CION COMPANY				· · · · · · · · · · · · · · · · · · ·		9. WELL NO.
3. ADDRESS OF OPERATOR 50) Airport 1	Orive, Farming	rton New N	levico	87401		-	186E 10. FIELD AND EDGL OR WILDCAT
4. LOCATION OF WELL (Repor					en:3. ")		Basin Dakota
At Siriace	1 1860' FWL, S						11. SEC., T., R., M., OR HEAT. AND SURVEY OR ANDA
At proposed prod. zone	1 1000 FWL, 5	ection 33,	1201	, ILLEW		,	SE/4, SW/4, Section 33,
	Same						T28N, R12W
11. DISTANCE IN MILES AND							12. COUNTY OR PARISH 10. STATE
10 miles Sout	heast of Farm	ington, Ne		ICO OF ACZES II	2 17192	17 80 0	San Juan New Mexico
LOCATION TO NEAREST PROPERTY OR LEASE LINE,		1250'	10			TO TI	HIS WELL
(Also to bearest drig, un	LOCATION		19. ra	640.00		20. EGTA	RY OR CARLS TOOLS
TO NUMBERT WELL, DRILL OR APPLIED FOR, ON THIS IS	ING. COMPLETED,	2750 '		6500 1		1	Rotary
21. ELEVATIONA (Show whether	DF, RT, GR. etc.)		<u> </u>			<u>.</u>	.22. APPROX. DATE WOR'T WIGH START
5707 GL		·				·	As soon as permitted
24.	P	ROPOSED CASI	NG AND	CEMENTIN	G PROGR	771	
Size of Hers	SIZE OF CASING	WRIGHT PERF	UNT	SETTING	DZPTH .		QUANTITY OF CEMENT
	8-5/8" (New)	24# K−			001	315 sx	Class "B" w/2% CaCl2-circ.
7-7/8"	4-1/2" (New)	10.5# K-	55	650	<u>)0'</u>		1-360 sx Class "B" 50:50
							gel, 2# med tuf plug/sx,
This application	to drill an E	nfill Basi	n Dale	ota well	ie		8% FLA. Tail in w/ 100 sx "B" Neat-circ.
pursuant to Order							2-640 sx Class "B" 65:35
May 22, 1979. Th							% gel, 2# med tuf plug/sx,
of the Natural Ga	•						8% FLA. Tail in w/ 100 sx
							"B" Neat-circ.
Gas Co.						DV too	l set at 3973'.
Application for a			is bee	n appro	Part 1		
by the Santa Fe o	ffice of the f	AMOCD.					
		•		- 1	SFO		C C C C C C C C C C C C C C C C C C C
				0/6	Capit	1200ERA	APONS AUTHORIZED ARE
				1	· CONOCC	er to cor	PLIANCE WITH ATTACHED
					GEN		IREMENTS"
IN ABOVE SHAFT FROM THE	oposed program: Wit	oronosal is to dee	pen or r	Numbers eiv	. (3)	2: 070d	luctive zone and proposed new productive
none. If propositis to dril greatering polygram, if any.	I or deepen directions	Hy, give pertinen	t data o	n substitues	locations a	nd measure	d and true vertical deprins. Give blowout
The state of the s							
\mathcal{R}	1000000	<u></u>		Distric	t Engin	ear	June 1/ 1930
	, 200000		Managar Kabatan				
Clinia opale 165 Pederal	or State office use) V						
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And which $ au \partial {m u}$	MANET	Ti	The				DATS.
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OIL COMBERVATION DIVISION

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

Form C-102 kevised 10-1-78

All distances must be from the cuter boundaries of the Section

Cperator		·····	Lease				120.33.00
-	CTION COMPANY	-		LEGOS CANY	מאו ווודים		Well No.
Unit Letter	Section	Township	Rang		County		186-E
N	33	28N_		12W	San	Juan	
Actual Footage Loci		D	7.07	^			
1250 Ground Level Elev.	feet from the Producing For		e and 1861	U <u>fe</u>	et from the	West	line Deducted to
5707	Dakot			in Dakota			Dedicated Acreage: 320 Acres
	e acreage dedica an one lease is d royalty).						
dated by co	ommunitization, u	nitization, force-	pooling. etc?	dationUn:	itizatio	n (Galleg	all owners been consolions Canyon Unit)
this form if No allowab	necessary.)le will be assign	ed to the well unt	il all interests	s have been	consolidat	ted (by comi	munitization, unitization, approved by the Commis-
	with	operates Gal a 51.7% worki				Name B. E. FAI Position DISTRICT Company AMOCO PRO	certify that the information concein is true and complete to the knowledge and belief. S. Jackbull CKRELL ENGINEER DUCTION COMPANY 15, 1980
1860	1250'	3. SE=078903=	! !			shown on innotes of a under my sis true arknowledge Date Surveye Eebrua	ry 1, 1980 rofessional Engineer Survéyor/
3 330 650 9	0 1920 1650 1980	2310 2640	2000 1500	1000 8	» •	Certificote N	C. S. C.

SUPPLEMENTAL INFORMATION TO FORM 9-331C GALLEGOS CANYON UNIT MO. 186E 1250' FSL & 1860' FWL, SECTION 33, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

The	geologic	name	of	the	surface	formation	is	the	Tertiary Nacimiento	٠.
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Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	DEPTH	ELEVATIO	N
Ojo Alamo	202	5518	3 '
Kirtland	832	4838	3 '
Fruitland	1013	4707	, 1
Pictured Cliffs	1363	4357	, 1
Chacra (if present)		1	1
Mesaverde Cliff House Point Lookout	2923 3823	~121	
Callup	5013	707	7 +
Dakota	5928	- 208	3 1
TD	6500	- 780) !

Estimated	KB	elevation:	5720	7

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:

SP-GR-Induction FDC-CNL-GR

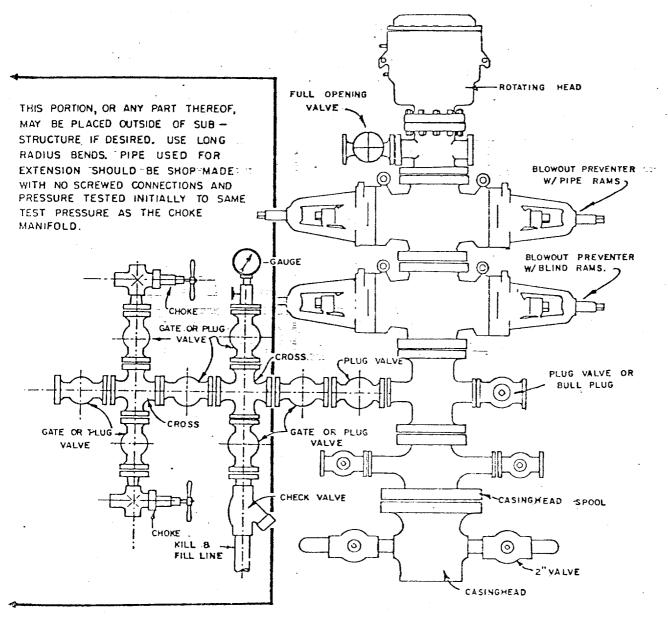
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

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

In the 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

GALLEGOS CANYON UNIT NO. 186E 1250' FSL & 1860' FWL, SECTION 33, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

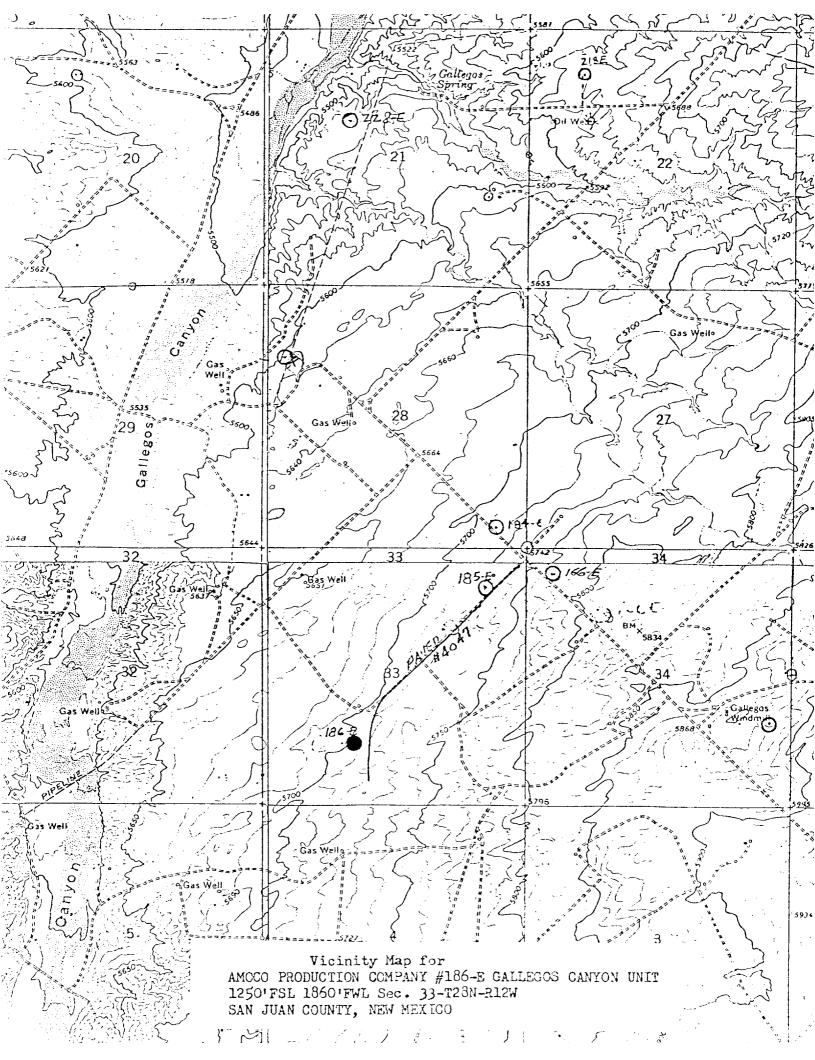
- 1. The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build any access road.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- 4. There is a 380-barrel tank and facilities located at Gallegos Canyon Unit Well No. 178 (D-4-27-12) and at Gallegos Canyon Unit No. 186 (1-33-28-12).
- 5. Water will be hauled from the San Juan River.
- 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 southeast side.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseading of the site will be carried out as instructed by the Bureau of Indian Affairs (NAPI).
- The general topography is a flat terrain, with a sandy loam soil, in corner of cultivated field.

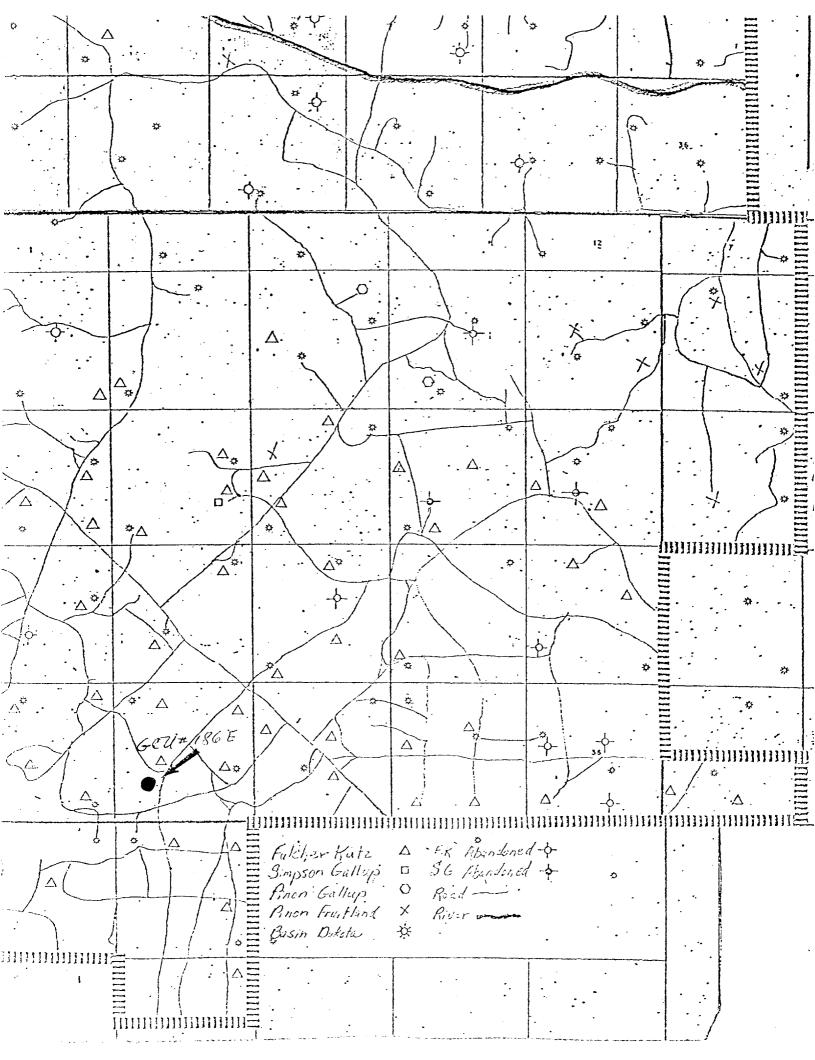
Representatives of the U. S. Geological Survey's Farmington Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins.

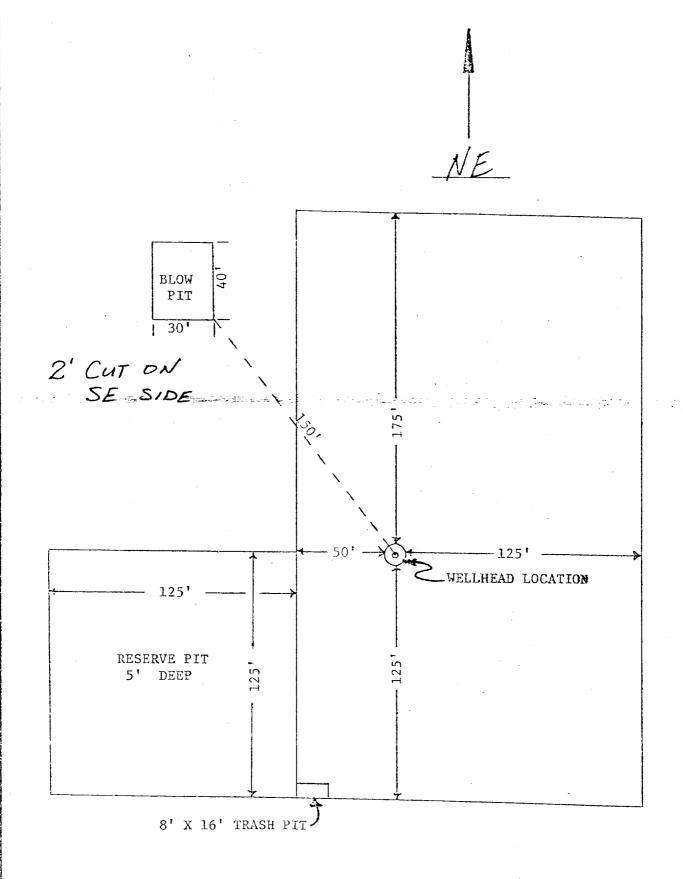
12. Operator's Representative: R. W. Schroeder

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 anditions under which it is approved.







APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=50"
DRILLING LOCATION SPECIFICA	TIONS
GALLEGOS CANYON UNIT	# 186E DRG.