SUBMIT IN TEMPLICATE*

(Other instructions on reverse side)

Budget	Bureau	No.	42-R1425

UNITED STATES

DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION	24429	
GEOLOGICAL SURVEY							
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						SF-0789	O3-A E OR TRIB : NAME
Tal Type of Work DR	RILL [3]	DEEPEN		PHIG	SACK []	7. UNIT AGREEMENT N	AMB
b. Type of well,					Di Kelk []	Gallegos Can	
2. NAME OF OPERATOR	VELL COTH	er INFILL	81 20	NGLE EL ZO	NE SE	8. FARM OR LEASE NAT	MR.
	OUCTION COMPA	ANY				9. Wells No.	
S. ADDRESS OF OPERATOR						166E	
501 Airpon	rt Drive, Fai	omington, New	Mexico	87401		10. FIELD AND POOL, O	
4. Lication of Well (I At surface	teport location clear	y and in accordance w	ith any Si	uite requirem-lis.*)		Basin Da	kota
1760' FNL At proposed pred, zer	and 960' FWI.	, Section 34,	T28N,	R12W		11. SSC T R M OF	
Me proposed proo, zo.	Same					SW/4, NW/4, S	ection 34,
14. DISTANCE IN MILES		NEAREST TOWN OR PO	ST OFFICE	*		T28N, R.	1.2W
		Farmington, No				_	!
15. DISTANCE FROM PROP LOCATION TO NEARES	OSED"	1,000,000,000,000,000		OF ACRES IN LEASE	1 17 NO O	San Juan	New Mexico
PROPERTY OR LEASE !	LINE, FT.	960'		640.0		HIS WELL .	
18, burrance from Phot	COSED LOCATION*		- 19. ras	POSED DEPTH	20 7000	320 CT OR CABLE TOOLS	
TO NUMBERY WELL, IN OR APPLIED FOR, ON TH	PRILLING, COMPLETED, US LEASE, FT.	2755 '		65001	20. Mitai	-	
21. ELEVATIONS (Show wh	ether DF, RT, GR, e	c.)		0000		Rotary 22. APPROX, PATS WO	
5801 'GL				•		•	
23.		PROPOSED CASI	NG ANO	CEMENTING PRO	GRAM	As soon as p	ermitted
SIZE OF HOLE	SIZE OF CASING					The state of the s	
12-1/4"	8-5/8" (Ne		-55	300'		QUANTITY OF CHMEN	•
7-7/8"	4-1/2" (Ne			6500'	STO_SX	Class "B" w/2	Z CaCl2-circ
					DO7 67	1-360 sx Class	E 50:50
	i				20 0%	gel, 2# med to 8% FLA. Tail i	ur plug/sx,
This application	on to drill a	m Infill Basi	n Dako	ota wall is	Class '	"B" Neat-circ.	n w/ 100 sx
pursuant to Ord	ler No. R-167	0-V approved	by the	NMOCC on		2-640 sx Class	11gt! 65.05
May 22, 1979.	This well wi	.ll qualify un	ider Se	ection 103	POZ. 65	% gel, 2# med	tuf plua/av
of the Natural	Gas Policy A	ct under Orde	r No.	R-1670-V.	and 0.8	8% FLA. Tail i	n 14/ 100 es
The gas from the	is well is d	ledicated to	El Pas	o Natural	Class '	"B" Neat-circ.	u 1.7 300 3X
Gas Co.				o water ar		set at 4245.	
						The same of the sa	
					60		
					144		
					\ \^\{\chi_{\chi}\}		•
					1 %		
					/ Y.	6,70 / ·	
IN ABOVE SPACE DESCRIBE	Proposes oncessor	Ye recovered to to a				7.	
in above scale haschigh zone. If proposed is to preventer program, if any	arm or nschen misc	tionally, give perfinen	pen oz plu t data en	g pack, give data or subsurface i mations	r present produc Cated measured.	clive rode and proposed and true vertical double	new productive
preventer program, if any 24.							- one mowers
		· /					

SIGNED J. Z Jackel DATE <u>April 18, 1980</u> (This space for Pieleral or State office use) APPROVED AS AMENDID CONDITION CONTRIBUTE ANY I Serve Milliou

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 outer houndaries of the Section.

Operator			Lease				Well No.
AMOSO PRODUCTION COMPANY			GALLEGOS CAUYON UNIT			166-E	
Unit Letter	Section	Township	Ronge		County	•	
E Contract of	34	28N		2 <i>N</i>	San	Juan	
Actual Footage Loc		North the god	960			West	_
Ground Level Elev.	feet from the Producing Fo	Title did	Pool	ieet	from the	11000	line Dedicated Acreage:
5801	Dakota		1 -	n Dakota		'	320 Acres
1. Outline th	e acreage dedica	ated to the subject w	ell by cold	ared pencil or	hachure	marks on th	
1. (/4.1.1.6 0	о читомри денего	and subject in	o 2, 00.0	sied peneri o	nachare	marks on an	e plat below.
	ian one lease is nd royalty).	dedicated to the wel	l, outline	each and ider	ntify the	ownership th	nereof (both as to working
		lifferent ownership is unitization, force-pool		to the well, l	nave the	interests of	all owners been consoli-
X Yes	No If a	nswer is "yes," type o	of consolid	ationUnit	ization	n (Galleg	os Canyon Unit)
If answer	is "no," list the f necessary.)	owners and tract desc	criptions w	hich have ac	tually be	en consolida	ated. (Use reverse side of
	•	ed to the well until al	linterests	have been -	one alida	tod (by	munitization, unitization,
forced-pool	ling, or otherwise	or until a non-standar	d unit. eli	nave been c minating such	onsonaat Linterest	ts. has been	munitization, unitization, approved by the Commis-
sion.		, or and a non bullen	a unit, oil	minaring out	i interest	is, nas been	approved by the Commis-
Year and the second second						1	
1	l l		1				CERTIFICATION
		Ì	1				
	1		1			1	ertify that the information con-
			1			I	rein is true and complete to the knowledge and belief.
1760			!			()	Allow reage and bellar.
1.7			1			D .	Manson
<u> </u>						Name B.E.	FACKRELL
9501		ĺ	1			Position	TOT TWATNERS
(3) <u>'</u>		i I		1		ICT ENGINEER
	1		i			Company	PRODUCTION COMPANY
	1		1			Date	INDESTION CORRANT
	•	ec.	!		1	April	1,1980
<u>S</u>	SF-07 8903-A		·				
	1	31,	i		191	1.	
i.	l 1) ⁴	1			1	certify that the well location
	1	Amo	co opera	ates Galle	ins A	1	this plat was plotted from field
	i			t with a 5			supervision, and that the same
1	ĺ		king int		300.00	1	nd correct to the best of my
j	0		1		***		and belief.
L	+		+				
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1	i .		1			Date Survey	15.52 5 25
	l ,		1				25, 1980
	i 1		1			Registated F	Professional Engineer
1	·		[2	1000
L	•		f i			Fred F	Kerry Tr.
District of the same		**************************************				Certification	
0 330 650	90 1320 1650 198	0 2310 2640 2000	1500	1000 50	0 0	3950	

SUPPLEMENTAL INFORMATION TO FORM 9-331C

GALLEGOS CANYON UNIT NO. 166E 1760' FNL & 960' FWL, SECTION 34, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

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

FORMATI	<u>ON</u>	DEPTH		ELEVATION
Ojo Alamo		330	t	+5484
Kirtland		375	1	+5439
Fruitland		975	,	+4839
Pictured Cliffs		1495	1	+4319
Chacra (if present)			1	1
Mesaverde	Cliff House Point Lookout	3055 3945		+2759
Gallup		5095	1	+ 719 •
Dakota		6020	Ť	- 206 1
TD		6500	1	1

Estimated	KB	elevation:	5814	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:

SP-GR-Induction FDC-CNL-GR

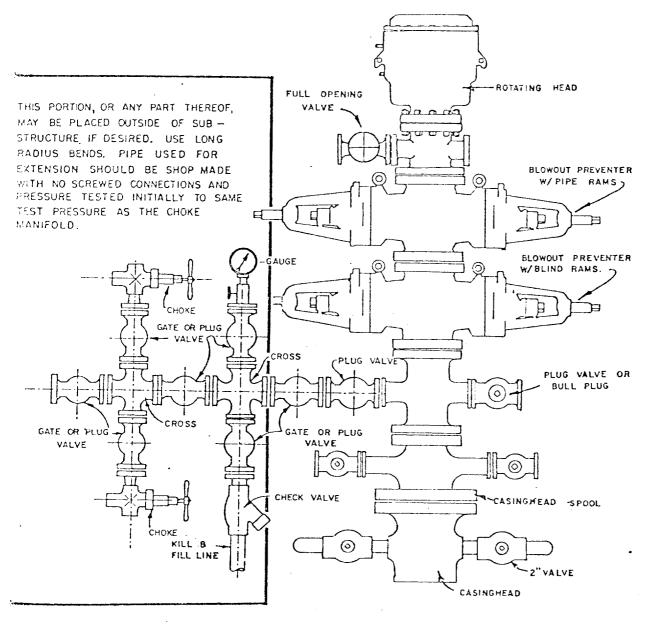
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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. 166E 1760' FNL & 960' FWL, SECTION 34, T28N, R12W SAN JUAN COUNTY, NEW MEXICS

- 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. 233 (M-27-28-12) and at Gallegos Canyon Unit No. 166 (k034-28-12).
- 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 1-foot cut will be made on top 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 (NAPI).
- II. The general topography is a flat terrain, with sandy loam soil, at edge of cultivated field.

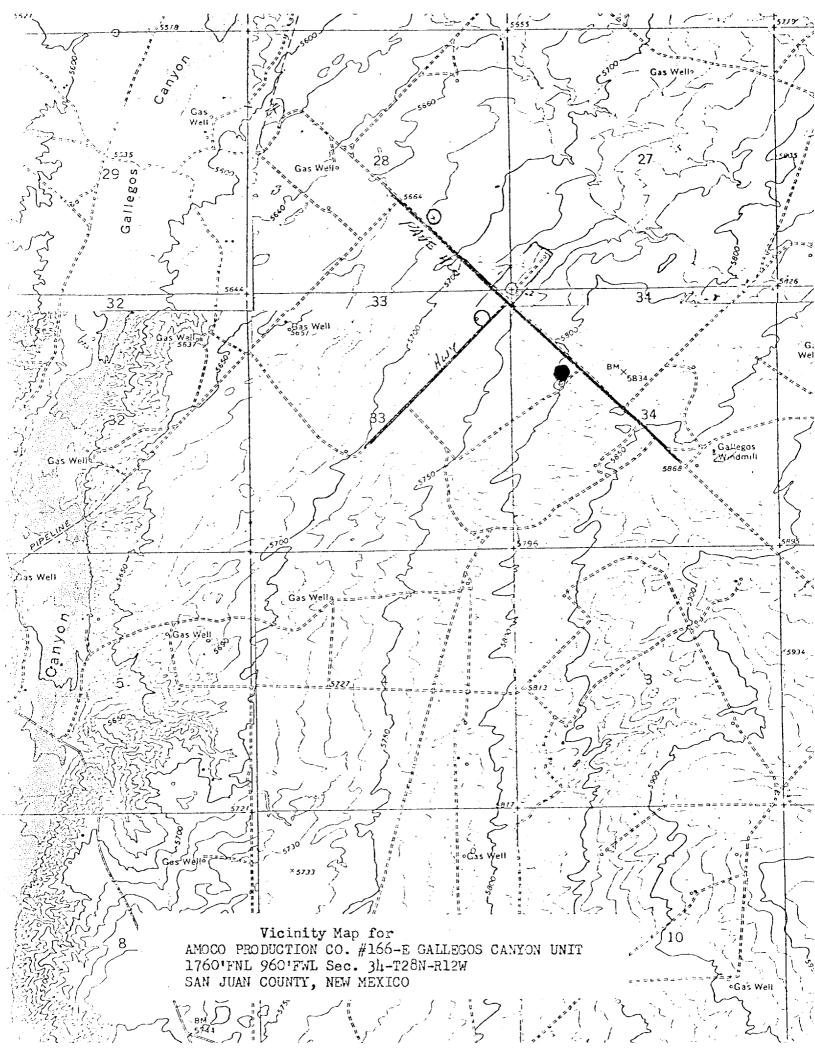
Representatives of the U. S. Geological Survey's Farmington Office inspected the site with Amoco personnel. Cultural resources inspection was not conducted as a blanket archaeological clearance has been previously established for the area in which this well is located.

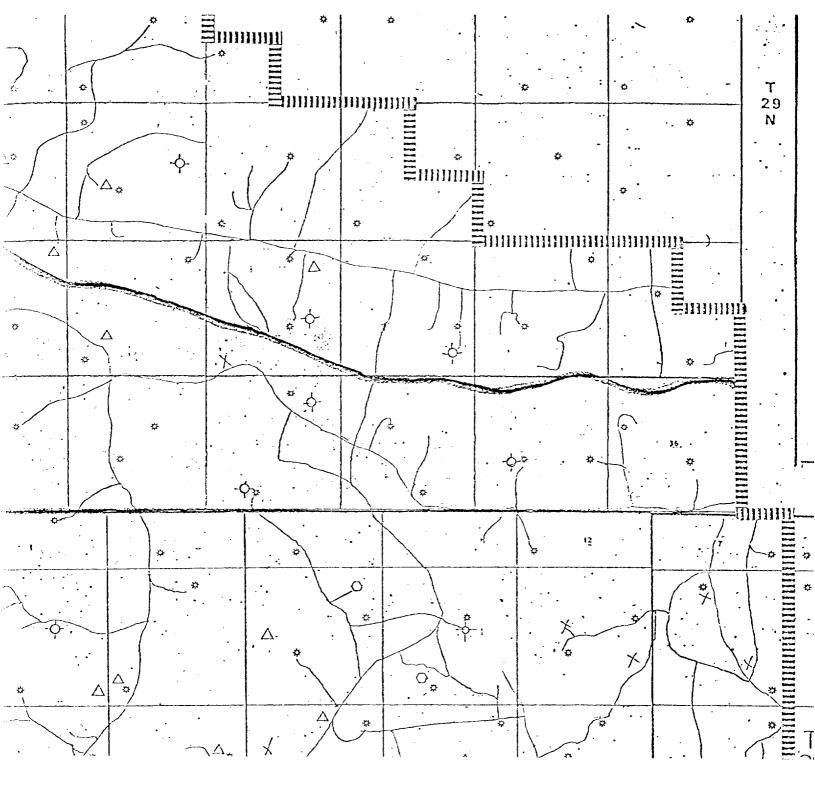
12. Operator's Representative: R. W. Schroeder

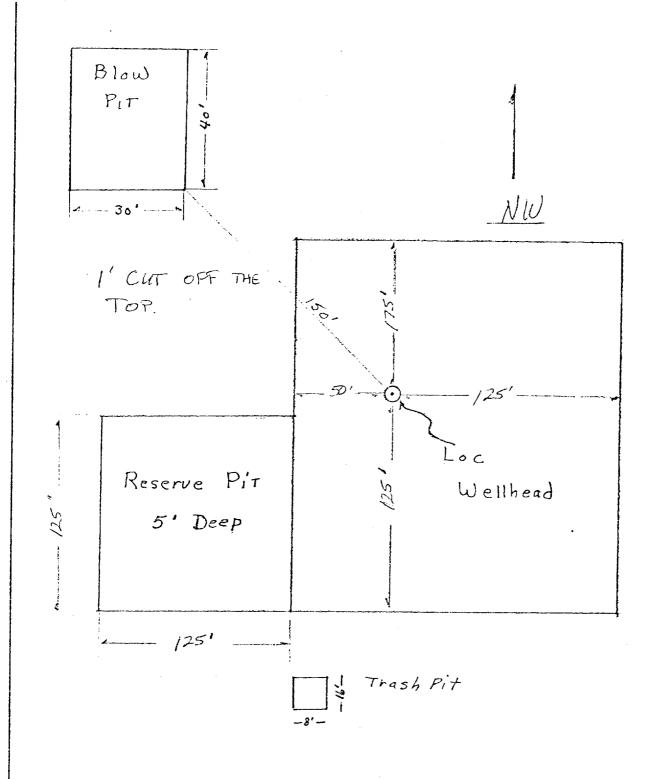
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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.

DateApril 14, 1980	- RW. Dekroenly es
	R. W. Schroeder, District Superintendent







Approximately 1.2 Acres

Amoco Production Company	SCALE: NONE
Drilling Location Specs GALLEGOS CANYON UNIT # 166E	DRG.