UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

CATE	Form approved. Budget Bureau No. 42-R1425.
ļ	30-045-34428 5. LEASE DESIGNATION AND SERIE, NO.
K	SF-078903-B 6. IS INDIAN, AGLOTYCH OR TUBER NAME
	7. UNIT AGUZEMENT NAME Gallegos Canyon Unit 8. FARM OR LEASE NAME
	9. WELL NO. 185E
	16. FIGER AND PORT, OR WILDCAY
	Basin Dakota 11. SPC, T., R., M., OR BEN. AND SURVEY OR ADEA NE/4, NE/4, Section 33, T28N, R12W 12. COUNTY OR PARISH 13. STATE
	San Juan New Mexico
	320 RY OR CABLE TOOLS ROTATY 22. APPEOX. DATA WORK WILL STARC?
	As soon as permitted
age Z 6% d 0. ass age Z, 6 d 0. ass	Class "B" w/2% CaCl2-circ. 1-360 sx Class "B" 50:50 gel, 2# med tuf plug/sx, 8% FLA. Tail in w/ 100 sx "B" Meat-circ. 2-640 sx Class "B" 65:35 %% gel, 2# med tuf plug/sx, 8% FLA. Tail in w/ 100 sx "B" Neat-circ. 1 set at 4146'.
7/3/7 19/3/7 19/3/7	
A. 子級 ieo surc	hictive zone and proposed new productive d politice vertical depths. Give blowout

DISTRICT ENGINEER

APPLICATION	I FOR PERMIT T	O DRILL, DEE	PEN, OR PLUG E	BACK	6. IF INDIAN, ACLOUTER OR THICK NAME
1a. TYPE OF WORK	LL 🗵	DEEPEN []	PLUG BA		Gallegos Canyon Unit
	S STREET OTHER	INFILL	SINGLE MULTIP	T.E	S. FARM OR LEASA NAME
2. NAME OF OPERATOR					
	UCTION COMPANY				9. WELL NO.
3. ADDRESS OF OPERATOR	t Dudan Tomain	oton Northborn	iao 97/01		185E
4, LOCATION OF WELL (Re	t Drive, Farmin	In accordance with an	v State requirements.*)		
At surface					Basin Dakota 11. Sec., T., R., M., OR BUK. AND SURVEY OR AREA
	nd 515' FEL, Se	ction 33, 120N	N, KIZW		NE/4, NE/4, Section 33,
At proposed prod, zon	Same				T28N, R12W
14. DISTANCE IN MILES A	AND DESECTION FROM NEAR	EST TOWN OR POST OF	ricz*		12. COUNTY OR PARISH 13. STATE
	outheast of Far	mington, New M	lexico		San Juan New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST	OSED*	16.	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	515'	640.0		3 20
18. DISTANCE FROM PROP TO NEAREST WELL, 10	ONDS LOCATION* BILLING, COMPLETED,	Į.	PROPOSED DEPTH	20. Bots	GRY OR CABLE TOOLS
OS APPLIED FOR, ON THE	IS LEASS, FT.	2055'	6500'		Rotary
21. BLEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START
5731' GL					As soon as permitted
23.	. 1	PROPOSED CASING A	AND CEMENTING PROUR	AM .	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER YOUT	SETTING DEPTH		QUANTITY 08 CEMENT
12-1/4"	8-5/8" (New)		3001		k Class "B" w/2% CaCl2-cir
7-7/8"	4-1/2" (New)	10.5# K-55	65001		1-360 sx Class "B" 50:50
					% gel, 2# med tuf plug/sz, .8% FLA. Tail in w/ 100 sx
This application	n to drill and	Infill Racin D)akota well is		"B" Neat-circ.
pursuant to Ord	ler No. R-1670-1	I approved by	the NMOCC on		2-640 sx Class "B" 65:35
May 22, 1979.	This well will	oualify under	Section 103	-	6% gel, 2# med tuf plug/sx
of the Hatural	Gas Policy Act	under Order N	So. R-1670-V.		.8% FLA. Tail in w/ 100 sm
The gas from th				Class	"B" Neat-circ.
Gas Co.				DV too	ol set at 4146'.
Application for Santa Fe office		location has b	een filed with t	he	in the garage of the control of the
Santa le Office	of the Middle.			A. Salar	The state of the s
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			194	UL ON PIS ST. CON	
			\ 0	1941 13	da i
				SY COM	r
IN ABOVE SPACE DESCRIB!	n rhordseb rhadkive: If drift or decorn direction	proposal is to de peu (ally, give periinant da)	or plug back, give dath on ; ta on subsurface location a	pres ംൂൻ ചിത് കോർ സംഗടവസ	Suctive zone and proposed new productive and profit true vertical depths. Give blowout
preventer program, if an					
24.	$S \rightarrow A A$	1			
SIGNED	C. Jack	Landa and the state of the stat	District Engi:	neer	PATS April 21, 1980
empropries de la la compansa de la c	eral or State office use)		erros tatares arra et é atlanto, e t	··· · · · ·	. ರೇಗಿ ಉಪನಗೆ ಕೆಸಗಳ ಗ್ರಹಿಸಿ ಕಗಟ್ಟಿಯ ಮನಕ್ಕಾಗಿ ಗ್ರಹಿಸಿ ಕಗಳುಗಳು ಗ್ರ
(Ams space for Fed	tur or man made usey				
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CONDITIONS OF APPROX	VAL, IP ANY:	anum.			100Ω
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		Iv,\∰U:	UÜ	1 >	JAMES F. SEAS

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 fr	on the cuter	houndaries of the	e Section.		
Operator			Lease				Well No.
AMOCO PRODUCTION COMPANY				EGOS CANYON	UNIT		185-E
Unit Letter	Section	Township	Range	i	County	T	
A	33	28N		2W	San	Juan	
Actual Footage Loc		M . 43.	P - P - P				
600		North line and	515	feet fr	rom the	East	line
Ground Level Elev.	Producing For		Pool				Dedicated Acreage:
5731	Dakot	a		asin Dakota	l 		320 Acres
1. Outline the	e acreage dedica	ited to the subject w	ell by cold	ored pencil or h	hachure	marks on th	ie nlat helow
	Č	,	,	F		a	o plat below.
2. If more th	an one lease is	dedicated to the wel	ll, outline	each and identi	ify the c	ownership tl	hereof (both as to working
. mierest an	id royalty).						
3 If more the	n one lease of d	ifferent ownership is	dadiaatad	to the well be		_,,_	all owners been consoli-
dated by c	ommunitization	mitization, force-pool	ing ato?	to the well, ha	ive the i	nterests of	all owners been consoli-
dated by c	ommunitization, t	micization, force-poor	ing. etc:			•	
XX Yes	No If an	nswer is "yes," type o	of consolid	ation Uniti:	zation	(Gallege	os Canvon Unit)
LF • • • • •		, jes, type (or composite	ation			
If answer i	s "no;" list the	owners and tract desc	criptions w	hich have actu	ally bee	n consolida	ated. (Use reverse side of
this form if	necessary.)					on consolida	ated. (Ose levelse side of
No allowab	le will be assign	ed to the well until al	linterests	have been con	nsolidate	ed (by com	munitization, unitization,
forced-pool	ing, or otherwise)	or until a non-standar	d unit. eli	minating such i	interests	e has been	approved by the Commis-
sion.	,		~ diii., oii.	minating 3den i	microsis	s, has been	approved by the Commis-
			1	009			CERTIFICATION
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1	1		i	9	المرا	I hereby o	ertify that the information con-
			· ·		375	tained her	ein is true and complete to the
C) !		1	et.	. 135°	best of my	knowledge and belijef.
Ĭ			18811:1-1	5 61512 JS	i	333	Agricult
1	1	CP 070002 D	i	S.		<u> </u>	Jagga
		$-\frac{\text{SF}}{4} + \frac{978903}{4} = \frac{1}{12}$	i-	- ⁻⁴ 62		None	77 1 6777 777 7
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				TO LIGATED			TOW ENGINEER
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1	1		1	•	I	Date	PRODUCTION COMPANY
) Sec	c.	1		1		28, 1980
<u></u>			<u> </u>			TIMICIT	20, 1900
				*			
	I	33		1	•	I hereby	certify that the well-location
	Amoco op	perates Gallegos	Canyon	Unit /o &			this plat was plotted from field
		51.7% working int				,	octual surveys made by me or
1	1		1	1 ,9			supervision, and that the same
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	i		1				
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						Fred	Kerr Jr.
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SUPPLEMENTAL INFORMATION TO FORM 9-331C

GALLEGOS CANYON UNIT NO. 185E 600' FNL & 515' FEL, SECTION 33, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

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

FORMATION	DEPTH	ELEVATION
Ojo Alamo	240	5504
Kirtland	286 '	5458
Fruitland	1036	4708 [†]
Pictured Cliffs	1386 '	43581
Chacra (if present)	1	Ť
Mesaverde Cliff House Point Lookout	2946 ' 3846 '	2798' 1893'
Gallup	5036	708*
Dakota	5951 '	-2071
TD	6500 '	-756°

Estimated	KB	elevation:	5744	1

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

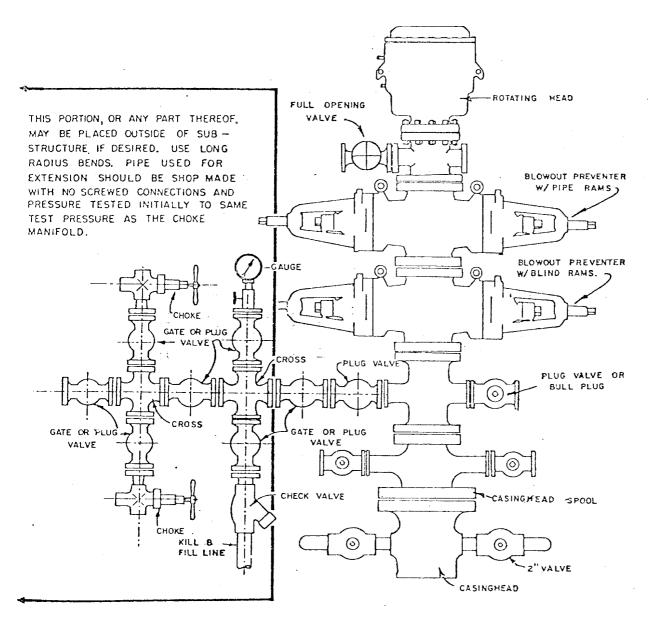
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately $\underline{\ \ 3\ }$ 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. 185E 600' FML & 515' FEL, SECTION 33, T28M, RI2W 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. 233 (M-27-28-12) and at Gallegos Canyon Unit No. 185 (D-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. 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, 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.

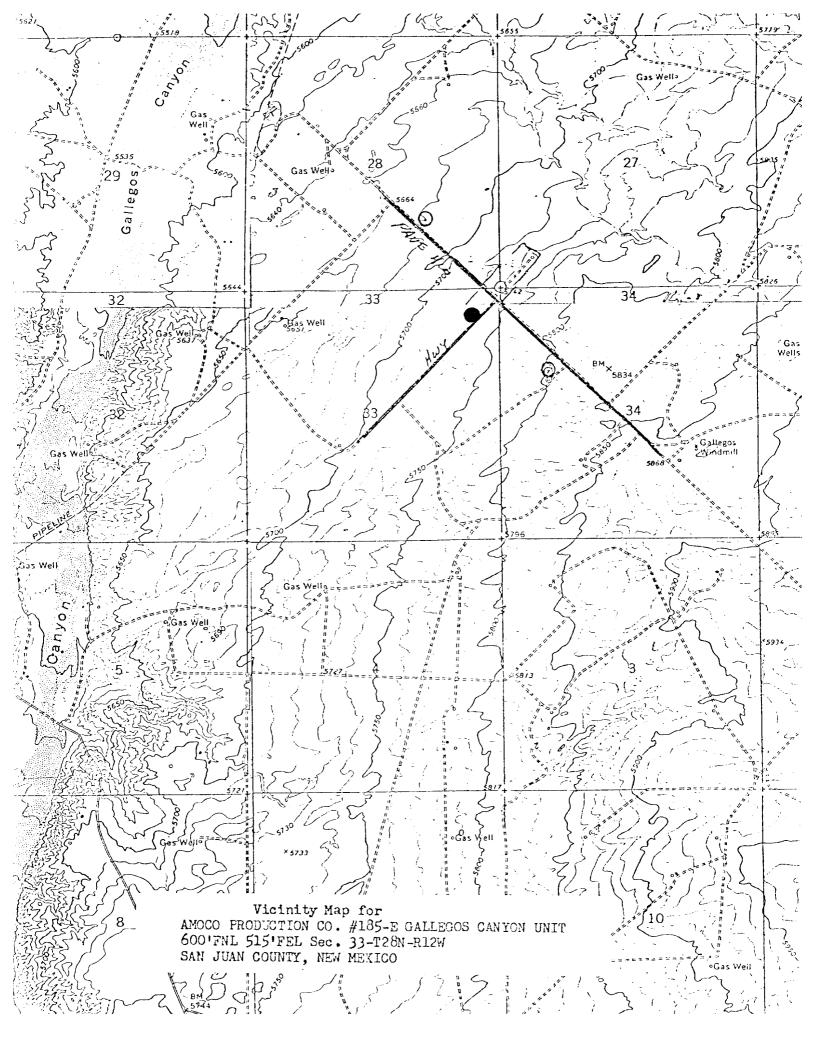
12. Operator's Representative: R. W. Schroeder

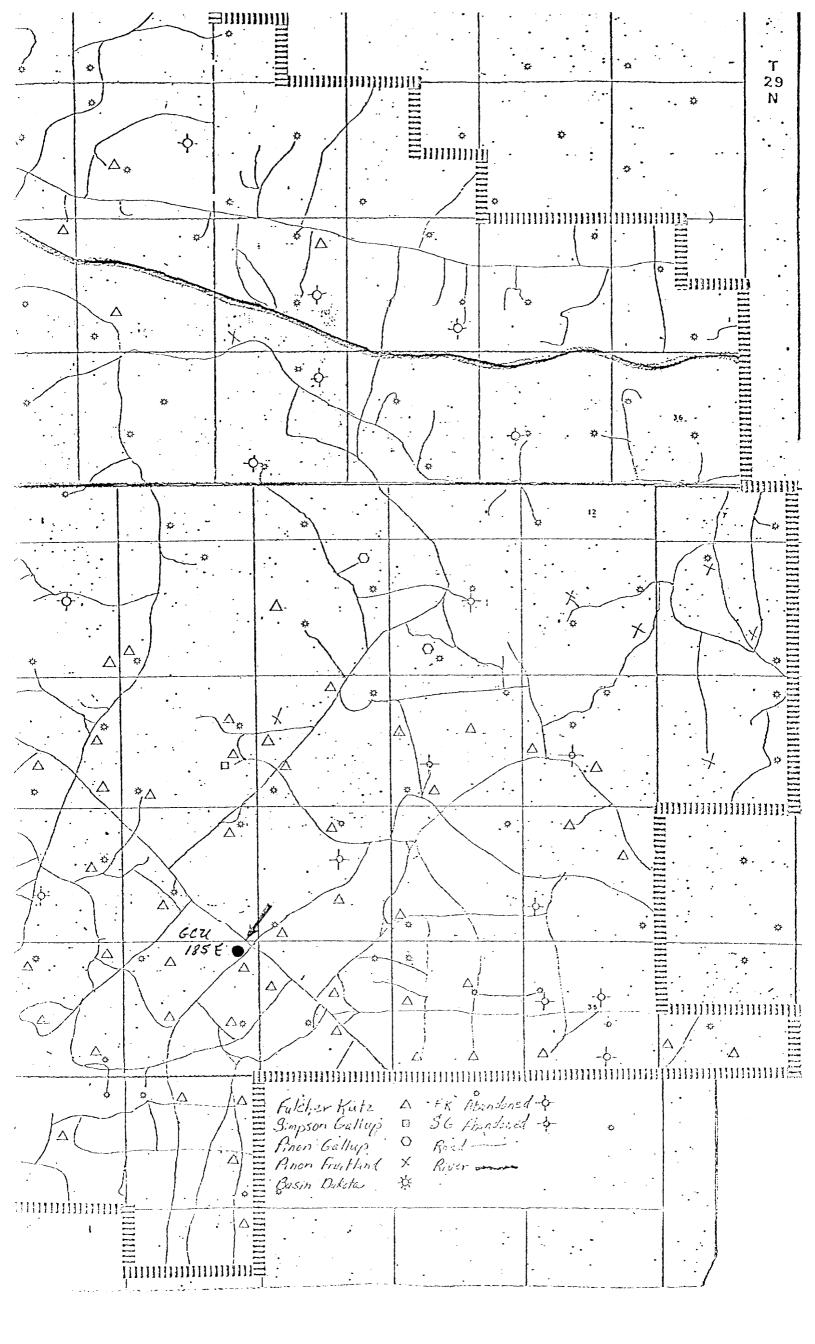
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

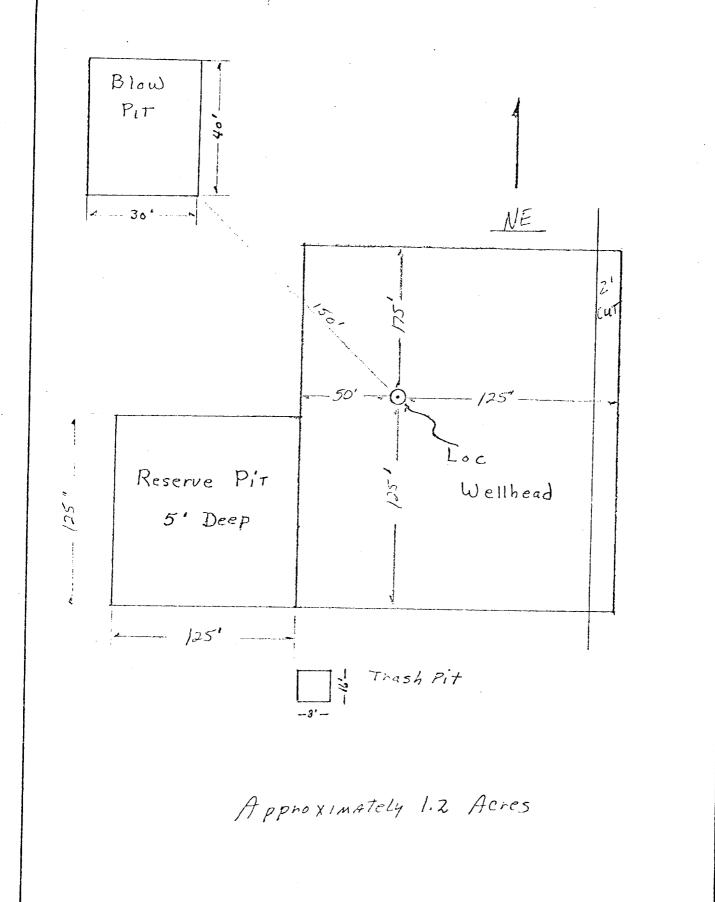
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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.

Date April 14, 1980

R. W. Schroeder, District Superintendent







Amoco Production Company		
	SCALE:	NONE
Drilling Location Specs		
CIALLEGIOS CANYON UNIT # 185E	DRG, NO.	
THE CONTRACTOR OF THE PROPERTY	INO.	