Form 9-331 C (May 1963).		,		COURSENT TR	tlons o.	Form approved. Budget Bureau No. 42-R1425.
		NITED STATES		reverse bl	ide) T	30-015-22108 5. LEASE DESIGNATION AND SEDIAL NO.
	GEC	LOGICAL SURV	EY			NM-0415461
······································	ION FOR PERMI	t to drill, i	DEEPEN,	OR PLUG B	ACK	6. IF INDIAN, ALLOTTEN OR TRIBE NAME
	DRILL 🛛	DEEPEN		PLUG BAC		7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL WELL 2. NAME OF OPERATO	GAS WELL OTHER		R E			OLD INDIAN ORAW UNIT 8. FARM OR LEASE NAME OLD INDIAN DRAW UNIT FEDERAL
AMOCO PRO	OULTION COM	<u>1PANY</u>	APR	- <u>8</u> - <u>1977</u>		9. WELL NO. 28
	L (Report location clearly					10. FIELD AND POOL, OR WILDCAT INDIAN DRAW-DELAWARE
At surface 662' FSL At proposed prod	X 1879' FWL	. SEC 19(0)		~3 <i>E</i> /4 <sup>:5</sup> ~/4)		11. SEC., T., R., M., OK BLK. AND SURVEY OR AREA
14. DISTANCE IN MI	LES AND DIRECTION FROM	NEAREST TOWN OR POS	T OFFICE*			19-22-28 NMPM 12. COUNTY OR PARISH 13. STATE
9 Miles	SE OF CARL	SBAD, NM	10 10 00		17	EDDY NM
15. DISTANCE FROM I LOCATION TO NE. PROPERTY OR LE. (Also to negregi	AREST		10. 80. 01	ACRES IN LEASE		ACRES ASSIGNED IS WELL
18. DISTANCE FROM TO NEAREST WE	PROPOSED LOCATION* LL, DRILLING, COMPLETED,		19. PROPOS	1		y or cable tools
	N THIS LEASE, FT.	.)	1 59	00		22. APPROX. DATE WORK WILL START*
23.	049.8 GR	DDODORED CLOU		MENTING PROGRA		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING DEPTH		QUANTITY OF CEMENT
12/4	8 78	24#		400		ILATE
1/8	5/2	14 -15.5		5100		LENT TO TIE BACK INTO LE PIPE.
After diele	ating as re	-	-AA	1 -	~	made, perforting and I production.
MUIS PROGRA	im: O-SCP	WATER	è Nat	ive Mud		RECEIVED
	SCP-TD	BRINE	¿ NAT	IVE MUD		MAR 24 1977
				., .		U.S. GEOLOGICAL SURVEY
	RAM: ATIACHE					MELSIA, NEW MEXICO
zone. If proposal a preventer program,	s to drill or deepen direc					active zone and proposed new productive and true vertical depths. Give blowout
24. BIGNED ALL	e V. Skendley	TI	TLE STAF	F ASSISTANT	- [SG]	<u>DATE 3-23-77</u>
(This space for	Federal or State office.					
PERMIT NO.		· / · ·	APP	ROVAL DATE	MONTHS.	g
APPROVED BY	PPROVAL, IF ANY :	THIE THIE	NOT CIM	H-7-1917-		DATE
) i 4- USGS-AR 1- DIV		ARE	Ht E31	Hatt		
1-SUSP	MOTING THET			Reverse Side		
2-01551						

NEW TEXICOLOLL CONSERVATION COMMISSION WELL LUCATION AND ACREAGE DEDICATION ... AT

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Form 7-102 Superveiler ( 128 Ettective 1-1-55

	Production Com	bony	Old Indian	Drow limit	Well Me. 28
Le <sup>1</sup> 'e:	Section	"p+nsnip	Panyr 28 East	County Eddy	
N M	19 atation of Aoili	22 South			
662	tent true the Sou	the second	nd 1879	tent in mitre West	line Jedi sated Acteuar:
3049.8		WARE		AW DELAWARE	40 Aur
Outling 1	the acreage dedice	ted to the subject	well by colored penci	1 or hachure marks on the	plat below.
2. If more interest	than one lease is and royalty).	dedicated to the v		identify the ownership the RECEN	real (both as to workin <b>Alaphre</b> s been consoli
dated by	communitization,	unitization, force-po	poling.etc?	MAR 24 19	77
Tes Yes	No If a	nswer is "yes," typ owners and tract d	e of consolidation	U.S. GEOLOGICAL SI ARTESIA actually been c NEWIMER	IRVEN se reverse side c
this form	if necessary.)				
Naallow	uble will be assign	ed to the well until )or until a non-star	all interests have been idard unit, eliminating s	n consolidated (by comm such interests, has been a	unitization, unitization approved by the Commis
			1		CERTIFICATION
	     		1 1 1	tained here	crify that the information con in is true and complete to th knowledge and belief.
\ 				Name Position	ay w. Cox
				Comp In y	istrative Assistant RODUCTION COMP.
				Dare	ARCH 7, 1977
			1	1	
		10nd	CHIGINEER & CANAD	shown on notes of a under my is true a	certify that the well location in this plot was plotted from fiel actual surveys mode by me supervision, and that the sar and correct to the best of r and belief.
	- 1879 -	-662 <sup>0</sup>	LINGINEER & LINE STATE OF CONTOCINE 676	shown on notes of under my is true o knowledge Date Survey February	this plot was platted from lie actual surveys mode by me supervision, and that the sor and correct to the best of r and belief. 16, 1977

## Attachment to "Application for Permit to Drill" Form 9-331 C

	Old Indian Draw Unit Well No. 28, Unit N, 662' FSL and 1879' FWL, Section 19,
	Township 22 South, Range 28 East, Eddy County, New Mexico
	Location (See Attached Form C-102)
	Elevation (See Attached Form C-102)
	Geologic name of surface formation Unknown
	Type of drilling tools and associated equipment to be utilized. (See Form 9-331 C)
	Proposed drilling depth. (See Form 9-331 C)
	Estimated tops of important geologic markers. MAR 24 1077
	Base Salt - 2300' U.S. GEOLOGICAL SURVEY   Delaware Sand - 2400' ARTESIA, NEW MEXICO   Old Indian Draw Sand - 3260' ARTESIA, NEW MEXICO
	Old Indian Draw Sand - 3260'
	Bone Springs - 5820'
	Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered. Indian Draw Sand - 3260' Bone Springs - 5820'
	Proposed casing program including size, grade, and weight of each string and whether it is new or used. (See Form 9-331 C)
	Proposed setting depth of each casing string and the amount and type of cement (inclu
•	additives) to be used. (See Form 9-331 C)

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10. Operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, presssure ratings (or API series) and the testing procedures and testing frequency. (See Attached BOP Program)

. . .

11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

O to Surface Casing Point -- Water x Native Mud SCP to Total Depth -- Brine x Native Mud · · . · · Testing, logging and coring programs to be followed with provisions made for required flexibility. Dual Laterolog Micro - SFL Borehole Compensated Sonic Log

13. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

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14. Anticipated starting date and duration of operation.

ASAP

. None

12.

15. Other facets of the proposed operation, operator wishes to point out for the Geological Survey's consideration of the application.

None

## ATTACHMENT TO FORM 9-331C

APPLICATION FOR PERMIT TO DRILL

LEASE_	OLD INDI	AN DRAW	J UNIT FED.	WELL NO.	2.8
LOCATI	ON UNIT	N, SEC	· 19, T-22-S,	R-28-E	
POOL	INDIAN	DRAW	DELAWARE		
COUNTY	EDDY		STAT	TE NM	

The undersigned hereby states that Amoco's representative, Mr. J.H.HANKINS, personally contacted <u>MR. HENRYH. GRANDI</u> CAMESDAN the ommer/leesee of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work and that agreement as to the compensation for damages to the surface estate has been reached.

Ray W.

Administrative Assistant

## Blow-out preventer and master value to be fluid operat and all fittings must be in good condition, 3,000# W.P. (0,000 p.s.i. test), minimum. 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 blow-out preventer shall be same size as casing being drilled through.
- 4. Kelly cock required, 3,000# W.P. (6,000 p.s.i. test), minimum.
- OMSCO or comparable safety valve must be available on rig floor at all times with proper connection or sub, 3,000# W.P. (6,000 p.s.i. test), minimum.
- 6. Blow-out preventers and master valve while drilling intermediate hole to 6,000' may be 2,000-W.P. (4,000 p.s.i. test), minimum.
- 7. Choke assembly, beyond second valve from cross, may be positioned (Optional) outside of derrick foundation.
- 8. Spool or cross may be climinated if connections are available in the lover part of the blow-out preventer body.
- 9. Plug valves gate valves are optional. Valves shown as 2" are minimum size.
- 10. Casing head and casing head spool, including attached valves, to be fur-
- nished by Pan American. 11. Rams in preventers will be installed as follows:
- When drilling, use: Top Preventer - Drill pipe rams Bottom Preventer - Blind rams or master valve
- When running casing, use: Top Preventer - Casing rams Bottom Preventer - Blind rams or master valve.



## OLD INDIAN DRAW UNIT FEDERAL WELL NO. <u>28</u>

Surface Use Plan ------ See info. attached to Well No.20, Unit K, NE/4 Sω/4 Sec. 19, T-22-S, R-28-E.

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Exhibits A, B, C, & E ----- See info. attached to Well No. 20, Unit K, NE/4 Sw/4 Sec. 19, T-22-S, R-28-E.

Archaeological Report ----- See info. attached to Well No. 20, Unit K, NE/4 SW/4 Sec. 19, T-22-S, R-28-E. ATTACHMENT TO PROPOSED DEVELOPMENT PLAN FOR SURFACE USE, AND FORM 9-331C

13. <u>Certification</u>: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

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:  $\underline{Amoco} \ \underline{Proportion} \ \underline{Company}$ and its contractors and subcontractors in comformity with this plan and the terms and conditions under which it is approved.

<u>3-23-77</u> DATE

ORE Ilians NAME AND TITLE 1 Tree Forinam



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