Form 9-331 C (May 1963)

(This space for Federal or State office use)

CONDITIONS OF APPROVIDING IN LAND SUPERVISOR

PERMIT NO.

APPROVED BY _

MAR 1 6 1982

JAMES A. GILLHAM

MI OIL WE. COMMISSION Prawer -Artesia NA 88210

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 005-61476

	UNII	ED SIAIES	NOD.		0-005-	619 /
	DEPARTMENT	OF THE INTER	RIOR		5. LEASE DESIGNATI	ON AND BEREE LICEVED
c/5F	GEOLO	GICAL SURVEY			NM-33659	
APPLICATION	N FOR PERMIT	O DRILL, DEEPI	EN, OR PLUG B	ACK_	6. IF INDIAN, ALLOT	THE OF MAR'17 1982
12. TYPE OF WORK	LL X	DEEPEN 🗆	PLUG BAC		7. UNIT AGREEMENT	; O. C . D.
b. TYPE OF WELL	.8 E		INGLE X MULTIPE	- □ -	S. FARM OR LEASE	NAME ARTESIA, OFFICE
	S X OTHER	Z	ONE LA ZONE	_ 	Hoffman	
2. NAME OF OPERATOR	ducing Conno	notion V			9. WELL NO.	
	ducing Corpo	I a CIOII.			_ L =	े हैं है। - इ.स. के क्षेत्र
3. ADDRESS OF OPERATOR	Wasanaha Dida	Midland To	v 20201		10. FIELD AND POOL	
lith Floor,	Vaughn Bldg	in accordance with any	State requirements.*)		Wildcat	Alo
At surince					11. SEC., T., B., M.,	B BLK
1980	FSL & 660'	FEL, Sec. 11	, T-4S, R-23E	3 3	AND SURVEY OR	AREA
At proposed prod. zon				NI	Sec. 11	, T-4S, R-23E
	AND DIRECTION FROM NEA	REST TOWN OR POST OFFIC	E *		12. COUNTY OR PAR	
					Chaves	N.M.
35 miles no	orth of Roswe	N.M. 16. N	O. OF ACRES IN LEASE	17. NO. C	F ACRES ASSIGNED	ी स्था द्धे उ.स.च
LOCATION TO NEAREST PROPERTY OR LEASE I	r	60' FEL	2400	TO, T	HIS WELL = 160	
(Also to nearest drl;	g. unit line, if any)	77.0 1 Court h 19. Pl	ROPOSED DEPTH	20. ROTA	BY OR CABLE TOOLS	
18. DISTANCE FROM PROT TO NEAREST WELL, D			5000	RO	tary	
OR APPLIED FOR, ON TH		off #3		>	22. APPROX. DATE	WORK WILL START*
21. ELEVATIONS (Show wh	ether Dr. RI, GA, etc.)				4/5/82	6 / S
4109.9' GR			TO CHARLES TO THE COLUMN	<u> </u>		<u> </u>
23.	1	PROPOSED CASING AN	D CEMENTING PROGRA	· · · · · · · · · · · · · · · · · · ·		1 2
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CE	
74 3/411	10 3/4"	32.75#	900'		<u>550_sx</u>	(Circulate)
* 9 7/8"	7 5/8"	24.00#	1600'		30 <u>0</u> _ex_	(Circulate)
7 7 70	1 7 (21)	10.50#	5000		900 sx	
7 7/8"	4 1/2"	10.50#	1)000	1 1 9		
					학표를 가 폭탄	
77 1 Dm	tion.				기사님 활동하	
Blowout Pre	evention:	maran 1011 9	00 series BOF	with	3400 psi	working
	nr	eggure with	4 1/2" pipe r	ams.		
	-			**		
* Intermed	iate string w	ill be set o	nly if there	are p	roblems en	countered
through	thic certian	of the hole.	II Turenmed	liate	SCITIES TO	500, 11222
drill ou	t with a 6 l	/2" bit unde	r intermediat	e cas		al depth.
urala de		•	[0] [2] [4]	<u> </u>		
					Will E	
	AS IS DED	CATED.	HN MAR	5 198	2	
(-	AS 13 15ED			0 100		• •
			Citi	& GAS		1
			U.S. GEOU	OCICAL-S	SURVEY	nosed new productive
IN ABOVE SPACE DESCRIE	E PROPOSED PROGRAM: If	proposal is to deepen or	plug back, give data en il on subsurface locations a	nd measure	ed and true vertical d	lepths. Give blowout
zone. If proposal is to preventer program, if a	drill or deepen direction	and, Erec bertinent data				
24.		, d .		**		
1//	APPROVED	/ /	1 gent	••	7	/3/82

II. STEW TAPPROVAL DATE

MEXICO OIL CONSERVATION COMMIS IN WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

erator Estoril Producing	Componition	Hoffman Federa	Hoffman Federal		
init Letter Section Township 4S		Range 23E Chaves Cour		nty	
tual Feotage Location of Wel		e and 660 t	eet trim the East	line	
1980 feet from ound Level Elev. Proc 4109.9'	the South line ducing Formation ABO	Pool WILDCAT	eet tr.m die	Dedicate i Acretije: 160 - Acreti	
1. Outline the acreage	e dedicated to the subje		or hachure marks on	the plat below,	
interest and royalty 3. If more than one lea). ase of different ownershi	p is dedicated to the wel		thereof (both as to working of all owners been consoli-	
Yes No		ype of consolidation	- Andly bear areali	dated (Lup repurse side f	
this form if necessar	e assigned to the well un	til all interests have beer	consolidated (by co	dated. (I se reverse side of mmunitization, unitization, en approved by the Commis-	
1				CERTIFICATION	
; ; ; ;		 	tained !	v certify that the information con- herein is true and complete to the my knowledge and belief:	
· +			Les	y W. Franklin	
1		1	Company	L	
 		! !	ESTOR Cate 12/33		
ENGINEER SILL STATE 676	W LAND SURVE		t hernb shown o notes a under n is true	by certify that the well location on this plat was plotted from field of actual surveys made by me or my supervision, and that the same and correct to the best of my dge and belief.	
	150		Date Surv	18/81 Leyed Leyed Leyed Engineer Leyed Surveyor	
220 660 190 1220	1690 1940 2310 2640	2000 1800 1000	Certification	to No JOHN W. WEST OF PATRICK A. ROMERO SA Ronald J. Eidson 32	

APPLICATION TO DRILL

ESTORIL PRODUCING CORPORATION
Hoffman Federal No. 4
1980' FSL & 660' FEL
Section 11, T-4S, R-23E
Chaves County, New Mexico

The following answers are provided for your consideration in response to your outline under Section II of Bulletin NTL-6:

- 1. Location: 1980' FSL & 660'FEL, Section 11, T-4S, R-23E, Chaves County, New Mexico.
- 2. Elevation Above Sea Level: 4109.9'
- 3. Geologic Name of Surface Formation: Alluvium
- 4. <u>Drilling Tools and Associated Equipment</u>: Conventional rotary drilling tools using mud for the circulation medium.
- 5. Proposed Drilling Depth: 5000'+or-
- 6. Estimated Geological Marker Tops: San Andres 570'; Glorietta 1530'; Abo 3485'; Wolfcamp3760'; Penn 4040'; Granite Wash 4740'.
- 7. Mineral Bearing Formation: Gas bearing at 3580°.
- 8. Casing Program: (A) Surface casing: 10 3/4", 32.75# new casing.
 (B)*Intermediate casing: 7 5/8", 24.0# new casing. (C) Production casing: 4 1/2", 10.5# new casing.
- 9. Setting Depth of Casing and Cement for Same: (A) 10 3/4" casing set at 900°. Cement will be circulated to surface using 550 sacks of class 'C', 3% CaCl. (B)*7 5/8" casing set at 1600° +or-. Cement will be circulated to surface using 300 sacks of class 'C' cement. This string of casing will be run only if there are prob; ems encountered in this section of the hole. (C) 4 1/2" casing set at 5000+or-. Cement will be brought up to cover the Abo section using 700 sacks of Pacesetter 'C', 1# Perma Check/sk, 1/4# Cello-Seal/sk, 2% KCl, followed by 200 sacks of 50-50 Pozmix, .6% CF-9, .3% TF-4, 3% KCl.
- 10. Pressure Control Equipment: After surface casing is set, blowout preventers will be installed. They will be Cameron 10" 900 series BOP with 3400 psi working pressure with 4 1/2" pipe rams. The blowout preventers will be tested to 1000 psi after they are installed.
- 11. Proposed Circulation Medium: Surface hole: 14 3/4" to 900'. Spud mud containing the following properties- viscosity 32-35 with a mud weight of 9.5 ppg. Intermediate hole: 9 7/8" hole to 1600'.

Application to Drill Estoril Producing Corp. Hoffman Federal No. 4 Page 2

Drill out under surface casing with brine water. Add paper for seepage. Production hole: 7 7/8" hole to 5000'+or-. Brine water. 3400'-TD: Salt mud with 3-6% oil content with a water loss of 10cc to get through the Abo shale. *If intermediate casing is set, reduce the hole size to 6 1/2" to total depth and run 4 1/2" casing as planned.

- 12. Testing, Logging, and Coring Program: (A) Testing: All testing will be commenced after the well has been drilled and casing set and cemented. (B) Logging: At total depth the following logs will be run: !. Compensated Neutron Formation Density with Gamma Ray and Caliper. 2. Dual Laterolog-RXO. (C) No coring is anticipated.
- 13. <u>Potential Hazards</u>: No abnormal pressure or temperature zones are anticiapted.
- 14. Anticipated Starting Date and Duration of Operations: April 5th-15th for drilling operations. Completion to commence with the availability of completion unit.
- 15. Other Facets of Operation: After running 4 1/2" casing, cased hole gamma ray correlation logs will be run from total depth over and above the pay zones. The zones of interest will then be tested for commercial production.

