Form 9-331 C		a Colices de la	SUBMIT IN	TRIPLICATE	C:5F
(May 1963)	1 /	TED STATES	(Other in	stri is on	Budget Bureau No. 42-R1425.
		T OF THE IN		гве Б. /	30-015-22915
		GICAL SURVEY			R LAS TENATIVAD DIAL NO.
APPLICATIC	IN FOR PERMIT			G BACK	6. IF INDIAN, ALLOTTEE OF TRIBE NAME
1a. TYPE OF WORK				DITICK	DEC 1 3 1979
	RILL RE-ENTRY	🕖 DEEPEN 🗌	PLUG I	BACK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL WELL	CAS WELL X OTHER		SINGLE MU ZONE ZON		8. MARTESHAISPALE
2. NAME OF OPERATOR	WELL XA OTHER		ZONE XX ZON		_
PETROLEUM DE 3. ADDRESS OF OPERATOR	VELOPMENT CORPOR	RATION	REC	EIVED	Arroyo Federal 9. WELL NO.
9720-B Cande	laria. NF. Albud	Merque NM 8			10. FIELD AND POOL OF WILDCAT
4. LOCATION OF WELL () At surface	laria, NE, Albuc Report location clearly and	in accordance with a			10. FIELD AND POOL, OF WILDCAT West Indian Bass Undesign. Morrow
	280' FWL, Sec. 2	24, 1215, R22	LILIS, GENI	ICICAL SUDU	11. BEC., T., E., M., DE BLK. AND SURVEY OF AREA EY Sec. 24, T215, R22E NMF
At proposed prod. zo	Same		ARTESIA	NEW MEVIN	Sec. 24, T21S, R22E
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OF	FFICE*		12. COUNTY OR PARISH 13. STATE
25 miles wes	t of Carlsbad, M	lew Mexico			Eddy NM
15. DISTANCE FROM PROF LOCATION TO NEARES	POSED*	16	NO. OF ACEES IN LEASE	1	F ACRES ASSIGNED
	g. unit line, if any)	660'	1120		320
18. DISTANCE FROM PRO TO NEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED,		PROPOSED DEPTH		LY OR CABLE TOOLS
21. ELEVATIONS (Show wi		9820'	9300	Rot	
4148 GL					22. APPBOX. DATE WORK WILL START* Dec. 5, 1979
23.	F	ROPOSED CASING	AND CEMENTING PRO	GRAM	1 Dec. 0, 1979
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT -
17-1/2"	13-3/8"	54#	505	625 sx	. Redi-mix to surf. (set 5
<u> </u>	8-5/8" 4-1/2"	24#	1975	<u>1300 s</u>	x Cem. circ. (set 5-19-79
7-770	4-1/2	10.5# & 11.	6# 9300	725 c.	†.
2000, 3850-4 tion hole, w of casing w	, 900 series dou 1000, 5900-6100, run and cement 4 ill be utilized	ble preventer 8800-9000. ½" casing bac opposite pros	r. Drill out ce Maintain mud be k to 7500'. Ce pective pay zon	ement plug elow 10 co entralized nes Comu	Propose to move in gs @: 0-100, 1900- c water loss, condi- rs and sand-blasting pletion will be jet need is indicated.
for original use is planr	ι ariiing ot τη	is well earli	er this year.	No change	earance were approved es or additional surface
	's well is not d	edicated.			Posted
			c z .		TDI
Inexco to yo	ch "Designation ou.	ot Uperator"	from Inexco, wh	nich was t	forwarded from 12 4-7 Ref
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM : If D	roposal is to deepen a	r plug back, give data on	Dresent produc	tive sone and proposed new and
zone. If proposal is to preventer program, if, an	arm or deepen directional	ly, give pertinent dat	a on subsurface locations	and measured	and true vertical depths. Give blowout
24.					
BIGNED CHRITES	W. Sanders	UN TITLE	Vice President		
(This space for Fede	ral or State office use)		17. v · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
PERMIT NO.		·	APPBOVAL DATE/	2-11-7	j
	:				
APPROVED BY CONDITIONS OF APPROV.	AL, IF ANY :	TITLE		· · · ·	DATE

*See Instructions On Reverse Side

NE AEXICO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION FLAT

Porm C-102 Supersedes C-128 Effective 14-65

PETROLEUM DEVELOPMENT CORPORATION Arroyo Federal 2 Unit Letter Section Township Range County C 24 21 South 22 East Eddy Actual Footage Location of Well: 660 feet from the North line and 2280 Ground Level Elev: Producing Formation Pool Dedicated Acreage;			All dista	nces must be from	n the outer bounds	ries of the Sec	tion.	· · · · · · · · · · · · · · · · · · ·
C 24 21 South 22 East Eddy Arrew Proved control of Well. The area many and the subject well by colored presil or hackure marks on the plat below. Destroy and the subject well by colored presil or hackure marks on the plat below. 1. Outline the acreage dedicated to the subject well by colored presil or hackure marks on the plat below. R E C E I V E D 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). DEC 13 1979 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? D. C.	Operator PETROLEUM DE	VELOPMENT C	ORPORATIO	1-		ral		
Access Proceed Each with North time and 2280 rest from the MEST time. 660 There there with North time and 2280 rest from the MEST time. 900 Access Morrow 2000 Access of the second Accesses 2000 Access of the best below. R E C E I V E D 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 2. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, or otherwise) or unit a non-standard mit, eliminating such interests, has been approved by the Commission. 11 Answer in "na," list the ownershap is dedicated in the we been consolidated (by communitization, unitization, forced pooling, or otherwise) or until a non-standard mit, eliminating such interests, has been approved by the Commission. 11 Answer is "seet", type of consolidated (by communitization, unitization, forced pooling, or otherwise) or until a non-standard mit, eliminating such interests, has been approved by the Commission. 11 Answer is the ownershap is a standard mit, eliminating such interests, has been approved by the Commission. 12 NOV 19 1979 13 Is the owner of the Kell Bactellon (by a standard the commission, unitization, unitization, forced pooling, or otherwise) or until a non-standard mit, eliminating such interests, has been approved by the Commission. 14 Answer is the assigned to the well notial interests and the standard the form is the assigned to the standard mit, eliminating such interests, has been approved by the Commission. 15 Answer with plane and plant dated in the set in a constandard mit, eliminating such interests, has been approved by the Commission. 14 Answer with the set interest is the set in a constandard mit, eliminating such interests, has been approved by the Commission. 15 Answer with plant and approve the mit interest in the set interest is the set of mit interest in the set in a standard mit, eliminating and	Unit Letter C			South	-		•	
Construct production Description Description <thdescription< t<="" td=""><td>Actual Footage Loc</td><td></td><td>I</td><td></td><td></td><td></td><td></td><td></td></thdescription<>	Actual Footage Loc		I					
4148 Morrow Undesignated 320 Acress 1. Outline the acreage dedicated to the subject will by colored panel or hackure marks on the plat below. R E C E 1 V E D 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). BEC E 1 3 1979 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, force-pooling, ctc? D. C. C. C. ATTERNA OFFICE If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, norization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. Ot NM 8419 CERTIFICATION I hereby certify that the information consumation is true and complete or the titring the more interest. NO I 19 1979 NOV 1 9 1979 NOV 1 9 1979 NOV 1 9 1979 NOV 1 9 1979 NOW 1 9 1979 NOV 1 9 1979 Not all bacted Not all dated				line and	2280	feet from	he West	
PECEIVED If more than one lease is dedicated to the well, outline cach and identify the ownership thereof (both as to working interest and royally). DEC 13 1979 If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? D.C.D.C.D.C.D.C.D.C.D.C.D.C.D.C.D.C.D.C	Ground Level Elev: 4148		Formation	F		ted		320
forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information con- tained herein is true and complete to the tained herein is true and complete to tained herein is tained herein is tained to tained h	 If more the interest are If more the dated by c Yes If answer the second sec	an one lease ad royalty). an one lease of ommunitization DNo If is "no," list th	is dedicated different ov , unitization answer is "	to the well, wnership is de , force-pooling 'yes," type of	RECE outline each a DEC 1 dicated to the g. etc? O. I ARTESIA consolidation	$1 \vee E C$ ad identify 3 1979 well, have C = C.) the ownersh the interests	ip thereof (both as to working s of all owners been consoli-
I hereby certify that the information con- tained herein is true and complete to the thread therein is true and complete to the thread thread thread therein is the thread thread thread thread thread the thread thr	No allowat forced-poo	ole will be assig	0					een approved by the Commis-
NM 8419 NM						, ,		CERTIFICATION
RECEIVED NOV 1 9 1979 U.S. GEOLUGICAL SURVEY ARTESIA, NEW MIEXICO	\mathbf{F}	1			1		1 1 her	eby certify that the information con-
Position Vice President Company Petroleum Development Corp. Dete 11-16-79 <i>i</i> hereby certify that the well location shown on this plat was plotted from field notes of actual surveys mode by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Originally drilled as Inexco Oil CoArroyo Fed. See original plat dated ARTESIA, NEW MEXICO Registered Professional Engineer and/or Land Surveyor	•		° ° 2	NM 8419				. //
RECEIVED NOV 1 9 1979 U.S. GEULUGICAL SURVEY ARTESIA, NEW MEXICO		+			 		Positic	'n
RECEIVED NOV 1 9 1979 U.S. GEULUGICAL SURVEY ARTESIA, NEW MEXICO NEW MEXICO NEW MEXICO NOV 1 9 1979 U.S. GEULUGICAL SURVEY ARTESIA, NEW MEXICO NEW MEXICO		 					Petr Date	oleum Development Corp.
				NOV 1 9 19	979		I he show notes unde is tr know Ori Ine See App Registr	reby certify that the well location n on this plat was plotted from field s of actual surveys made by me or r my supervision, and that the same we and correct to the best of my ledge and belief. ginally drilled as XCO Oil CoArroyo Fed. original plat dated <u>il 23.1979</u> red Professional Engineer
	l						 	



United States Department of the Interior **RECEIVED**

GEOLOGICAL SURVEY

DEC 1 3 1979

P. O. Drawer U Artesia, New Mexico 88210

D. C. C.

December 11, 1979

Petroleum Development Corp. 9720-B Candelaria NE Albuquerque, New Mexico 87111 PETROLEUM DEVELOPMENT CORPORATION Arroyo Fed No. 2 660 FNL 2280 FWL Sec. 24 T.21S R.22E Eddy County Lease No. NM 8419

Gentlemen:

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO RE-ENTER the above-described well to a depth of 9,300 feet to test the Morrow is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Oil and Gas Operations on Federal Leases, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the Surface Use Plan and these Conditions of Approval including the attached General Requirements.
- 3. Submit a Daily Report of Operations from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should not be less than 8" x 5" in size and each page should identify the well.
- 4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Guidelines. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 5. Before drilling out the 4000' cement plug, the blowout preventer assembly will be installed and will consist of a minimum of one annular type and two ram type preventers.
- 6. A kelly cock will be installed and maintained in operable condition.



- 7. Before drilling below the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.
- 8. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling below the Wolfcamp formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:
 - (1) A recording pit level indicator to determine pit volume gains and losses.
 - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
 - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- 9. Notify the Survey in sufficient time to witness the cementing of the 4-1/2" casing.
- 10. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

GEORGE H. STEWART

George H. Stewart Acting District Engineer