korm 9-331 C (May 1963)		SUBMIT IN T (Other instr	RIPLICATE* ns on	Form approv Budget Burea	ु । 5 ह red. 10 No. 42-R1425.
LAITED ST		reverse .	' <i>3</i> 0	-015-2	3355
DEPARTMENT OF T	HE INIERI	JK	5. 1	EASE DESIGNATION	AND SEBIAL NO.
	ED			11952	
APPLICATION FOR PERMIT TO DR	ILT, DEEPEN	I, OR PLUG E	BACK ^{6.1}	IF INDIAN, ALLOTTE	E OE TEIBE NAME
DRILL	690 m	PLUG BA		NIT AGREEMENT	NAME
		PLUG BA		·	
WELL GAS WELL ATORBULULUGICA	L SURVEY SING	LE MULTH ZONE	°LЕ 8. н	PARM OR LEASE NA	ME
2. NAME OF OPERATOR ARTESIA, NEW	MEXICO		F	ederal BH	t ::
Amoco Production Company			9. 1	WELL NO.	
3. ADDRESS OF OPERATOR				1	· · · · · · · · · · · · · · · · · · ·
P.O. Box 68, Hobbs, NM 88240 4. LOCATION OF WELL (Report location clearly and in accord	ance with ony Stat	a requiremente *)		FIELD AND POOL,	
At surface	ance with any stat	te requirements. ,		Wildcat Morrow	
2310' FNL & 735' FEL, Sec. 8			11.	AND SURVEY OR A	REA
At proposed prod. zone (Unit H, SE/4 NE/4)		8	-26-23	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN	OR POST OFFICE*			COUNTY OR PARISI	1 13. STATE
			E	ddy	NM
 DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 	16. NO. C	OF ACRES IN LEASE	17. NO. OF ACE TO THIS W 320	RES ASSIGNED	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	19. PROPO	OSED DEPTH	20. ROTARY OR	CABLE TOOLS	
OR APPLIED FOR, ON THIS LEASE, FT.	8350	8350' F			t <u>-</u> -
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				APPROX. DATE W	OBK WILL START*
4468.2 GR			6	-15-80	
PROPOSEI	D CASING AND C	EMENTING PROGR	АМ		
	AT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT
$\frac{17 \ 1/2"}{13 \ 3/8"} = \frac{48 \#}{23}$		500'		. to surf.	
$\frac{11" \text{ or } 12 1/4"}{7.7(2)} = \frac{8.5/8"}{1.5.5} 24 \frac{1}{1.5}$		3350'		. to surf.	
7 7/8" 5 1/2" 15.5#,	17#, 20#	8350'	lie	back to 8	5/8"
Propose to drill and ec reaching TD logs will be run and necessary in attempting commercia Mud Program: 0' - 500	evaluated; 1 productio	perforate an	d/or stimu	After late as	RECEIVED
500' - 3350 3350' - TD)' Native n Commerci properti 7700' ra	nud and brine ial mud and b ies for safe aise viscosit r Morrow pene	water. rine with hole condi y and redu	tions. At	O. C. D. ARTESIA, OFFICE
BOP Program Attached,Archaelogica Survey Attached,Gas is Not Dedica	l ted			,	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is zone. If proposal is to drill or deepen directionally, give preventer program, if any.					
SIGNED BOGNAUTS	TITLE	Admin. Anal	yst	6/2/8)
(This space for Federal or State office use)					
PERMIT NO.	4 13	PROVAL DATE	معني د د	80	
	AF		······	<u></u>	
APPROVED BY	TITLE		. <u> </u>	DATE	
CONDITIONS OF APPROVAL, IF ANY :					

*See Instructions On Reverse Side

NL MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

- -

			t be from the outer bound	sites of the section		· · · · · · · · · · · · · · · · · · ·
AMOCO Production Co.		Eederal	ВН		Well No. 1	
"Init Letter	Section	Township	Ronge	County		
Н	8	26 South	23 East		Eddy	
Actual Foolage Loc	ation of Well:	_			,	
2310			and 735	feet from the	East	line
Ground Level Elev.			Pool		Dedic	bated Acreage:
4468.2		rrow	Wildcat			320 Acres
1. Outline th	ie acreage dedic	cated to the subject	t well by colored pe	encil or hachure	marks on the pla	it below.
interest a	nd royalty).			RECEI	/ED	f (both as to working
dated by c	communitizațion,	unitization, force-		11IN 2	1980	owners been consoli-
Yes Yes	No If	answer is "yes," ty	pe of consolidation	ILS REINTIGICA	L SURVEY	
16				ARTESIA: NFW	MEXICO	(Use reverse side of
	is "no;" list the if necessary.)	e owners and tract	descriptions which h	av Alacounty bet	n'consolidated.	(Use reverse side of
		med to the well unt	il all interests have	heen concolidat	ad the same it	tization, unitization,
						oved by the Commis-
sion.	ing, or otherwis		ndara bint, chimitati	ing such interest.	s, nas been appi	oved by the Commis-
51011.					1	
ſ	1		1	4	CER	TIFICATION
1	1		1		I hereby certify	that the information con-
	I		1	1	tained herein is	true and complete to the
	1	1	1		best of my know	lange and belief
	1		ł	-	Rdo	Jamo
	ł	1		2310	Name	Vaula
				+ 	Admin. An	alvst
	ł	1	1		Position	
	ł		1		Amoco Produ	ction Company
	1	4	l.		Compiany	
	i		l		6-2-80	
	1	1	1	0-735'	Date	
	1	1	1			
	I		·			
		EG. P2	STATE OF	CURVE	shown on this p notes of actual under my super-	y that the well location lat was plotted from field surveys mode by me or rision, and that the same rrect to the best of my belief.
			F			
	1		TH MEXICO		Date Surveyed	
	l	1	MAN W WES	Ϋ́Υ	May 24,1	980
	i	1		}	Registeres Profes	
	1		1		and or Land Surve	11/1/2 +
					Carillicate No J	SHIN W. WEST 676
0 330 560	-80 1320 1680		2000 1500 100			TRICK A. ROMERO 6668 ngld J. Eidson 3239

N.M.O.C.D. COPY



United States Department of the Interior

SEOLOGICAL S. IN ST

P. C. Drawer U Artesia, New Mexico 88210 RECEIVED

JUN 6 1980

O. C. D.

ARTESIA, OFFICE

Amoco Production Company P. O. Box 68 Hobbs, New Mexico 88240 AMOCO PRODUCTION COMPANY Federal BH No. 1 2310 FNL 735 FEL Sec. 8 T.265 R.23E Eddy County Lease No. NM-11952 Above Data Required on Well Sign

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Gentlemen:

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 8,350 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. All access roads will be limited to a 12 foot wide driving surface, excluding turnarounds. Surface disturbance associated with road construction will be limited to 20 feet in width.
- 4. 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.
- 5. 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).
- 6. Before drilling below the 8-5/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
- 7. A kelly cock will be installed and maintained in operable condition.

- 8. After setting the 8-5/8" casing string and before drilling into 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.
- 9. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into 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.
- 10. Notify the Survey by telephone 24 hours prior to spudding well.
- Notify the Survey in sufficient time to witness the cementing of the 8-5/8" casing.
- 12. Cement behind the 13-3/8" and 8-5/8" casing must be circulated.
- 13. Please have aryone 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,

ADA DE DE CELORGE H. STEWART

George H. Stewart Acting District Engineer

- 1. BOP'S TO BE FLUID OPERATED.
- BOP'S AND ALL FITTINGS MUST BE IN GOOD CONDITION AND RATED AT 3000 PSI W.P. MINIMUM.
- EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AT LEAST AS LARGE AS CASING SIZE BEING DRILLED THROUGH.
- 4. NIPPLE ABOVE BOP'S SHALL BE SAME SIZE AS LAST CASING SET.
- 5. UPPER KELLY COCK IS REQUIRED AND SHALL BE 3000# W.P. MINIMUM.
- 6. T. I. W. OR COMPARABLE SAFETY VALVE SHALL BE AVAILABLE ON RIG FLOOR WITH CONNECTION OR SUBS TO FIT ANY TOOL JOINT IN THE STRING. VALVE TO BE FULL BORE 5000# MIN.
- 7. VALVE NEXT TO SPOOL SHALL BE 4". OTHER EQUIPMENT MAY BE 3" OR 4". ALL CHOKE MANIFOLD EQUIPMENT SHALL BE FLANGED. FLOW LINE FROM MANIFOLD TO BE MINIMUM OF 3" AND STRAIGHT AS POSSIBLE WITH MINIMUM BENDS.
- 8. FLUID LINES FROM ACCUMULATOR TO BOP'S AND ALL REMOTE CONTROL FLUID LINES SHALL BE STEEL, AND RATED AT OR ABOVE MAXIMUM ACCUMULATOR PRESSURE. LINES SHALL BE ROUTED IN BUNGLES AND ADEQUATELY PROTECTED FROM DAMAGE.
- 9. USE RAMS IN FOLLOWING POSITIONS:*

	DRILLING	RUNNING CASING
UPPER RAM	DRILL FIPE	CASING
LOWER RAM	BLIND	BLIND

*AMOCO AREA SUPT. MAY REVERSE LOCATION OF RAMS.

- CHOKE MANIFOLD, BEYOND SECOND VALVE FROM CROSS MAY BE OPTIONALLY POSITIONED OUTSIDE OF SUBSTRUCTURE.
- 11. EXTENSIONS AND HAND WHEELS TO BE INSTALLED AND BRACED AT ALL TIMES.
- 12. TWO INCH (2") LINES AND VALVES ARE PERMITTED ON THE KILL LINE.

NOTE: ALL UNMARKED VALVES MAY BE PLUG OR GATE VALVE, METAL TO METAL SEAL.



Attachment to "Application for Pernit to Drill", Form 9-331 C Federal BH #1 2310' FNL & 735' FEL, Sec. 8, T-26-S, R-23-E Lea County, NM

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

- 3. Geologic name of surface formation. Quaternary
- 4. Type of drilling tools and associated equipment to be utilized.

See Form 9-331 C

5. Proposed drilling depth.

See Form 9-331 C

6.	Estimated to	ops of	important geologic Atoka	markers.
	Deleware	675'	Atoka	7045 '
	Bone Springs	3345!	Mid Morrow	7855 '
`	Wolfcamp	5915'	Barnett	8305'
	Strawn	6700'		

- 7. Estimated depths at which anticipated water, oil, gas or other mineralbearing formations are expected to be encountered. Wolfcamp 5915' Mid Morrow 7855' Strawn 6700'
- 8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

Depth	Size	Weight	Grade	New or Used
5001	13 3/8"	48 #	H-40	New
3350'	3 5/3"	24#, 32#	K-5 5	New
8350'	5 1/2"	15.5#	K-55	New

9. Proposed cementing program.

13	3/8"	-	Circulate to Surface.
8	5/8"	-	Circulate to Surface.
5	1/2"	-	Tie back to 8 5/8".

10. Blowout Preventer Program is attached.

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- 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.
 - 0 500' Native mud and fresh water.
 500' 3350' Native mud and brine water.
 3350' TD Commercial mud and brine with minimum properties for safe hole conditions
- 12. Testing, logging and coring programs to be followed with provisions made for required flexibility.

500' - TD Compensated Neutron Formation Density

500' - TD Dual Laterolog Micro SFL

- 13. Any anticipated abnormal pressure or temperatures expected to be encountered or potential hazards, such as hydrogen sulfide gas, along with plans for mitigating such hazards. None anticipated
- 14. Anticipated starting date and duration of operation. 6-15-80 8-8-80
- 15. Other facets of the proposed operation operator wishes to point out for the Geological Survey's consideration of the application.

Request exemptions from the painting stipulations of Sec. 102 (a) (8) of the "Federal Land Policy and Management Act of 1976" to paint any tanks, separators, and treaters required for the production of this well, Amoco's standard gray color. If a pumping unit is required for the continued production of this well, it will be painted black with orange safety color coding which conforms with your current painting guidelines.









Exihibit- E