

United States Department of the Interior

GEOLOGICAL SURVEY South Central Region P. 0. Box 26124 Albuquerque, New Mexico 37125

NOV 2 8 1980

Amoco Production Company P. O. Box 68 Hobbs, New Mexico 88240

Gentlemen:

Your Application for Permit to Drill well No. 1 Federal "BU" in the NW%SE% section 27, T. 19 S., R. 33 E., N.M.P.M., Lea County, New Mexico, lease NM 34350, to a depth of 13,700 feet to test the Morrow formation in the Oil Potash area, is hereby approved, as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the District Supervisor, Geological Survey, Hobbs, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(ORIG. CCD.) JACK WILLOCK

FOR

Deputy Conservaton Manager 011 and Gas

Enclosure

cc: ✓ NMOCD, Hobbs (2) (w/enclosures) CM, SCR DCM-Mining (2)



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Form 9-331 C		COPY TO	O. G. G.	SUBMIT IN T	RIPLICA		red.
• (May 1963)	UNI	TLJ STATES		(Other instru reverse		Rudget Bures	$\frac{10}{100} = \frac{100}{100} = \frac$
	DEPARTMEN	T OF THE IN	NTERIOF	2		5. LEASE DESIGNATION	AND SERIAL NO.
	GEOLO	OGICAL SURVE	EY			NH42030941 A	1M3UX10
APPLICATIO	N FOR PERMIT	TO DRILL, D	DEEPEN,	OR PLUG	BACK	6. IF INDIAN, ALLOTTI	E OR TRIBE NAME
1a. TYPE OF WOEK		DEEPEN	7	PLUG BA		7. UNIT AGREEMENT	NAME
b. TYPE OF WELL							
2. NAME OF OPERATOR	VELL OTHER		SINGLE 1			8. FARM OR LEASE NA	ME .
	duction Company			1 6 1980		Federal BU 9. WELL NO.	
3. ADDRESS OF OPERATOR			nc UC		σV	1	
P. O. Box	68, Hobbs, N	M 88240	Q1-1-	CICAL SU	RVEI	10. FIELD AND POOL,	
At surface	report rocation clearly an	u in accordance with	1 any State r	NEW MEXI		East Gem Mor	row
At proposed prod. zoi	68, Hobbs, N Report location clearly an ne 1980' FSL &	1980' FEL, /4, SE/4)	Sec HOBB	5, 11		AND SURVEY OR A	REA
	(UnitJ, NW	/4. SE/4)				27-19-33	
	west of Hobbs	and town on rost	OFFICE*			12. COUNTY OR PARISE	
15. DISTANCE FROM PROP LOCATION TO NEARES	USED* •	<u>, iviri</u>	16. NO. OF A	CRES IN LEASE	17. NO. (Lea.	NM'
PROPERTY OR LEASE 1 (Also to nearest dri	LINE, FT.				тот	HIS WELL 320	
18. DISTANCE FROM PROI TO NEAREST WELL, D	RILLING, COMPLETED,		19. PROPOSED	DEPTH	20. ROTA	RY OB CABLE TOOLS	
OR APPLIED FOR, ON TH 21. ELEVATIONS (Show wh			137	00'		Rotary	
			2505	.7' GL		22. APPROX. DATE WO	
23.		PROPOSED CASING			AM	11-1-8	30
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	or si	ETTING DEPTH	1	QUANTITY OF CEME	NT
17-1/2"	13-3/8"	48#		500'		late CIRCULAT	
<u> </u>	<u> </u>	40#	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5400'	-	late CIRCULAT.	•
0-3/4	5-1/2	20#, 1	/#	13700'		ack eto 9-5/8"	
Propose to	drill and equ	in Well in t	ha Morro	w formatio			
will be ru	n and evaluated	d. Perforate	e and st	imulate as	necess	arv in attempt	ing
commercial	production.						
MUD PROGRA	M: 0'- 500' N	Native mud ar	nd frach	water			
		Commercial mu					
	5100'-TD (Commercial mu	ud and b	rine with w	minimum	properties fo	or safe.
BOP Program	M Attachod	nole condition	ons. Re	duce water	loss p	rior to Morrow	penetration
	ical Survey Att	tached				_	
<u>Gas is not</u>	dedicated						
0+6-USGS,	H 1-Hou	l-Susp	1-LBG	1-W. Sta	afford,	Ноц	
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM : If	proposal is to deeper	n or plug bac	k, give data on p	resent produ	active zone and propose	d new productive
zone. If proposal is to opreventer program, if any		my, give periment (lata on subsu	rface locations at	id measured	and true vertical depti	s. Give blowout
24.	1 4.		Λ.c.+	۸. J		1	
signed	Ton pree	TITLE	ASSL.	Administra	ative A	nalyst IU-I	0-80
(This space for Feder	al or State office use)						
PERMIT NO.			APPROV	AL DATE		·	
APPROVED BY							
CONDITIONS OF APPROVA		TITLE					•••

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*See Instructions On Reverse Side

NE IEXICO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128

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Obelajot	X		m the autor beyndaries of t	he Section	Well No.
Amoco	Production Co		Federal B L	J	
C'nut Letter Sec	tion Townshi		Range	County	
J	27	19 south	33 east	Lea	
Actual Foctage Location			1000		
Ground Level Elev.	et from the south Producing Formation	line and	1980 feet	from the Cast	line
3585.7	Morrov	1	East Gem Morrow		Dedicated Acreage:
	creage dedicated to th				320 Acres
 If more than interest and ro If more than o dated by comm Yes 	one lease is dedicate byalty). ne lease of different o cunitization, unitizatio No If answer is no;" list the owners a	ed to the well, ownership is de n. force-pooling "yes!' type of o	outline each and iden dicated to the well, h g. etc? consolidation	tify the ownership the ave the interests of	ereof (both as to working all owners been consoli- ed. (Use reverse side of
No allowable w	ill be assigned to the	well until all in a non-standard i	nterests have been co unit, eliminating such	nsolidated (by comm interests, hus been e	unitization, unitization, approved by the Commis-
	}	1			CERTIFICATION
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		1	1	l hereby ce	rtify that the information con-
	1	ł	ŧ.	01	in is true and complete to the
	i	{	1	best of my i	knowledge and belief.
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	INFER O	5	1 1000		pervision, and that the same
	ENGINELI & LA			0	correct to the best of my
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	The Office of th				
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	670			Date Surveyed	0 00 00
	THE MEXIC	0861	1	Paristand D	9-29-80
	JOHN W. WE		J I	and for Land St	ofessional Engineer urveyor
	W.W.			- lek	sillant
				TTT Confilicone No	JOHN W. WEST 676
6 00° 068 068 0	520 1650 1980 2310 28	40 2000	1500 1000 800		PATRICK A. RONERO 6663 Ronald J. Eidson 3239

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

Federal BU No. 1 1980' FNL & 1980' FWL, Sec. 27 T-19-S, R-33-E, Lea County, NM AMOCO PRODUCTION COMPANY

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Quarternary

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 tops of important geologic markers.

Tansill Yates	2900' 3110'	Bone Springs Wolfcamp	10830'	Morrow Mississippian	12950' 13650'
Seven Rivers Delaware	3470 ' 5350'	Strawn Atoka	12100' 12350'		
Ectimated depths	at which	antininated wat		· · · · · · · · · · · · · · · · · · ·	

7. Estimated depths at which anticipated water, oil, gas or other mineralbearing formations are expected to be encountered.

Morrow 13000'

8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

Depth	Size	<u>Weight</u>	Grade	New or Used
500'	13-3/8"	48#	H-40	New
5400'	9-5/8"	40#	K-55	New
13700'	5-1/2"	20#, 17#	N-80	New

9. Proposed cementing program.

13-3/8" - Circulate 9-5/8" - Circulate 5-1/2" - Tiesback to 9-5/8"

- 10. Blowout Preventer Program is attached.
- 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'-5100' Commercial mud and fresh wate 5100'-TD Commercial mud and brine with minimum properties for safe hole conditions. Reduce water loss prior to Mcrrow penetration

12. Testing, logging and coring programs to be followed with provisions made for required flexibility.

Compensated neutron formation density 5400'-TD Dual laterolog w/Micro SFL 5400'-TD

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.

11-1-80 12-15-80

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.

Form 9–331 Dec. 1973						n Approved. zet Bureau No.	42-R1424
	UNITED	STATES		5. LEASE			
DE	PARTMENT OF	THE INTERI	OR	NM-348	50		. • •
	GEOLOGICA	L SURVEY				E OR TRIBE N	IAME
(Do not use this form	OTICES AND	or to deepen or pl			REEMENT	IAME	
reservoir, Use Form 9-		isais.)			R LEASE NA	ME	- -
	ell 🛛 other			Federal 9. WELL NO			
2. NAME OF OPE			·				
AMOCO Prod 3. ADDRESS OF	uction Compa	iny		10. FIELD O			
	8, Hobbs, N	1 88240		11. SEC., T.,	em Morrov		
4. LOCATION OF			RLY. See space 17				RVET UK
below.)	1980' FSL &				27-19-33		· · ·
AT TOP PROD	. INTERVAL: (Ur TH:	و FEL بالال		12. COUNTY	OR PARISH		
AT TOTAL DEP	TH: Ur	וזד J , NW/4	, SE/4)	14. API NO.		I NM	· · · · · ·
16. CHECK APPRO	PRIATE BOX TO	INDICATE NAT	URE OF NOTICE				
REPORT, OR C	OTHER DATA			15. ELEVATI	ONS (SHOW	DF, KDB, A	ND WD)
REQUEST FOR APP	PROVAL TO:	SUBSEQUENT	REPORT OF:	3585.7	<u></u>		
TEST WATER SHUT							r 81.51
FRACTURE TREAT SHOOT OR ACIDIZ							
REPAIR WELL				(NOTE: Repo	rt manule Cut E	.n.M.E.T	M
PULL OR ALTER C				chan	Belofferation of	330)	the pr zone
MULTIPLE COMPLE CHANGE ZONES				/'	K B B	ADOR	
ABANDON*	. 🗋	Ц		- 1	VIDA NON	2 1980	
(other) Change mi	ud program			-		OGICAL SI	JRVEY
17. DESCRIBE PRO including estim measured and t	POSED OR COMI ated date of start true vertical depth	PLETED OPERAT ing any propose s for all markers	TIONS (Clearly sta d work. If well is and zones pertine	ate all pertinent directionally drill ent to this work.)	detailo 1998	, ave pertine surface local	icons and
propose to cha							
0-500'	Native mud	and fresh	water				
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500-TD	conditions	. Reduce v	rine with mi vater loss p	nimum prope rior to Mor	rties fo row pene	r safe h tration.	ble
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Subsurface Safety V	alve: Manu. and Ty	/pe			Set	@	Ft.
18. I hereby certify t	that the foregoing	is true and corre	ct			· · ·	• •
			Ast. Adm. An	alyst DATE	11-20-8	0 ~	
<u> </u>		(This space for	or Federal or State o	ffice use)			
APPROVED BY		TITLE		DATE		-	
CONDITIONS OF APPR	UTAL, IF ANT:					•	
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		*See Inst	ructions on Reverse	Side			

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