(1, ay 1963)	DEPARTMEN GEOLC	TED STATES T OF THE INT DGICAL SURVEY		5. LEASE DESIGNATION AND SERIAL NO. NM-0559532
	FOR PERMIT	TO DRILL, DE	EPEN, OR PLUG	
1a. TYPE OF WORK DRIL	L	DEEPEN XX	PLUG BA	CK 7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL GAS WELL WE:	LL KA OTHER	Ce Entry	SINGLE MULTI ZONE ZONE	
2. NAME OF OPERATOR		/		Gates Federal Deep 9. WELL NO.
3. ADDRESS OF OPERATOR	tes Company,			#] 10. FIELD AND POOL, OR WILDCAT
Suite 1000 S 4. LOCATION OF WELL (Rep	ecurity Natio	nal Bank Bldg	. Roswel E. N.M. any State requirements.*)	Wildcat 97 Cr 20cc
At surface	0 FSL & 660 F			11. SEC., T., R., M., OR BLK.
At proposed prod. zone	Same		$m\Gamma > 1$	<b>Sec. 6</b> , T-17S, R-28E
14. DISTANCE IN MILES A	ND DIRECTION FROM NE		agree	12. COUNTY OR PARISH 13. STATE
1] Miles Ea	st of Artesia		L. NO. OF ACRES IN LEASE	Eddy N. M.
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	N <b>E, F</b> T.	660'	928.82	325.91
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	SED LOCATION* ILLING, COMPLETED,	1700'	19. PROPOSED DEPTH 10,300'	20. ROTARY OR CABLE TOOLS Reverse Unit, Rotary
OR APPLIED FOR, ON THIS 21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL STAR
3536	DF		AND ORMENTING BROG	May KECEIVE
		WEIGHT PER FOO	AND CEMENTING PROG	QUANTITY OF COMENT
Existing Casing	SIZE OF CASING			MPR 0 5 1977
	13 3/8"		<u> </u>	400 St. S. GEOLOGICAL SUP
Prosposed Casi	8 5/8" ng:		1049	800 SXARTESIA, NEW MEXICO
7 7/8"	5 1/2"	17#	10,300'	Sufficient to cover produc
OR				intervals
			10, 2001	Sufficient to cover produc
7 7/8"	4 1/2"	11.6#	10,300	Sufficient to cover produc
F		T#	7304 P+A 3-	14-64
FORMERLY THE T well, drill t to plug 1529' 8 5/8" casing 7804' KB and d This agreage	o plug at 860 , braden head . (2) Move rill new hole is not dedicat groposed PROGRAM: drill or deepen directi	', braden hea squeeze perf in drilling r to approxima ed to a gas p	d squeeze perfs 7 s 1195' - 1203' a ig, continue to o tely 10,300' KB t purchaser.	with reverse unit, to re-enter 198' - 835', drill and clean out and 1270' - 1310' pressure test drill plugs and clean out to to test morrow formation.
24. SIGNED		TIT	LEVice_Presiden	t <u>March 10, 197</u>
(This space for Fed	eral or State office use	)		WATER BASIN
PERMIT NOT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		APPROVAL DATE	
		APPROVAL 15 RESERVED W	LES IF OPERATHS	BATE HATED
CONDITIONS OF APPRO	AL, IF ANY :	APPROVAL IS REPAIR	1977	CASING MUST BE CIRCULATED
11 7 6 1	11.1-1	APPR-	Nº 10	

s of lands and leases for appropriate action by either special instructions concerning the use of this form either are shown below or will be issued by, or may	priate notations. Consult quirements. Consult local on this reverse side, show- tate agency offices. production zone.	8200". From	n 8200' - 9300 (10,300) mud u	system from the ' cut brine sys p with 6-10cc to 34 - 36 viscos	stem with 2% KC vater loss cont	L. From
ns the state of lands and leases for appropriate action by either d regulations. Any necessary special instructions concerning the use of this form onal proceeding and practices, either are shown below or will be issued by, or may	on the well. I suppose the cuts form with appropriation of the well. I should be described in accordance with Frederal reland should be description. A plat, or plats, separate or on, should be furnished when required by Frederal or S subsurface location of hole in any present or objective marrine enverse of the income of both the procession connections enverse of the procession before connections are not before connections are not before an enverse of the procession before connections are not before an enverse of the procession before connections are not before an enverse of the procession before connections are not before an enverse of the procession are not an enverse of the procession are not an enverse of the procession are not before an enverse of the procession are not are not before an enverse of the procession are not are not an enverse of the procession are not				11 - 3 - 2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3	скара (1) Частар (1) Кастория (1) Собрания Собранс Собрания Собрания Собрания Собро
<b>General:</b> This form is designed for submitting proposals to perform certain well operations, as <b>indic</b> a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations, and the number of copies to be submitted, particularly with regard to horel, area, or regional proceeding to obtained from.	applicate State or Federal regulations concerning absequent were proposals or reports on the well. The proposal is or regulations concerning absequent were proposals or reports on the well. The state or Federal requirements. Consult loca I are state or Federal requirements. Consult loca State or Federal requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult loca State or specific instructions. Consult loca State or rederal office for specific instructions. Used in a contance with Federal requirements. Consult loca I are state are no applicable state requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult loca I are of a specific instructions. I are state or specific instructions. I are state or specific instructions. I are state of the readed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, show ing the roads to, and the surveyed location of the well, and any other required information, should be farmished when required by Federal or State agency offices. I term 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. Item 22: Consult annicable Federal or State rearbitions or annicous or annections of the intervention of the production zone or annection of the state of				· · · · · · · · · · · · · · · · · · ·	

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Harvey E. Yates Company, Inc.		Gates Federal Deep		1	
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3. If more t	han one lease of communitization,		dedicated to the well, ling.etc?		1977 Annors been consoli- L SURVEY MEXICO
this form No allow	if necessary.) able will be assig	ned to the well until a	ll interests have been	consolidated (by con	lated. (Use reverse side of nmunitization, unitization, n approved by the Commis-
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			i I I	1 T (1 T	resident E. Yates Company, Ind
			· .	March	10, 1977
				shown or ricres of under ing is true	certify that the well-logic othis platwas platted transform actual surveys made by me supervision, and that the same and correct to the best of ny geand belief
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				<ul> <li>Construction</li> <li>Instruction</li> </ul>	Erotessi sul Erumaee. i Curvey ,
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# APPLICATION FOR DRILLING

# Harvey E. Yates Company, Inc. Gates Federal Deep #1 Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well in Section 6, Township 17 South, Range 28 East, Eddy County, New Mexico, Harvey E. Yates Company, Inc. submits the following ten items of pertinent information in accordance with U.S.G.S. requirements:

- 1. The geologic surface formation is permian salado and other surficial deposits.
- 2. The estimated new tops of geologic markers are as follows:

Canyon	8298'
Strawn	8659'
Atoka	9132'
Morrow	9388'
Chester	9724'
Lower Miss. Ls.	9854'
Total Depth	<b>10,3</b> 00

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water - Do not anticipate finding water Gas - Atoka - 9132' - 9232' and Morrow - 9388' - 9488'

- 4. Proposed casing program: See Form 9-331C
- 5. Pressure control equipment: See Form 9-331C and Exhibit E
- 6. Mud program: See Form 9-331C
- 7. Auxiliary equipment: Blowout preventer
- 8. Testing, coring and logging programs: CNL Density, Dual Laterolog and possible Dipmeter. Possible DST in Cisco, Atoka and Morrow formations. No coring is planned.
- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible after approval, about May 1, 1977.



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### SURFACE USE PLAN

RECEIVED U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

HARVEY E. YATES COMPANY, INC. Gates Federal Deep #1 - 660' FSL & 660' FEL Sec. 6, T-17S, R-28E, Eddy County, New Mexico

# 1. EXISTING ROADS:

- A. Please refer to Exhibit A. Travel east from Artesia approximately 8 miles on Highway 82. At this point there will be a road heading north northeast off Highway 82. Turn on this road and continue until you come to a Y. At the Y travel due north (you will pass an REA Transformer Bank of the west side of this road) for approximately 2.6 miles. At this point, you will arrive at an intersection with one of the roads branching off to the northeast. Travel on this road until you come to another intersection (about 1 mile) where the road runs northwest to southeast. Turn southeast and travel for approximately 1/2 mile. A road will intersect to the northeast, turn on this road and continue for approximately 1/2 mile. You are now within 300' of our proposed location.
- B. Approximately 1 mile of the above described road (beginning at the proposed location and traveling backwards) will have to be improved. This section of road will be widened to 12' and improved with 4" of compacted caliche. The proposed improvement of this road is color coded green.
- 2. PLANNED ACCESS ROADS:
  - A. There are no plans for any new access roads.
- 3. LOCATION OF EXISTING WELLS:
  - A. There are no producing wells in this section but several dry holes. The dry holes are located in the SW/SW, NE/SE, SW/NE and of course the one we anticipate deepening, the dry hole known as Tenneco #1 Hondo Federal. Please see Exhibit B for color coded brown dry holes excepting subject well.
- 4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION, GATHERING AND SERVICE LINES:
  - A. Please refer to Exhibit E on which production facilities are shown. We anticipate finding gas and will not require power lines to this location and in the event that we drill a producing well, all of the production facilities will be located on the pad that will be built.
- 5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water will be obtained from commercial sources.

- 6. SOURCE OF CONSTRUCTION MATERIAL:
  - A. There is an existing caliche pit located in SE/SE of Sec. 35, T-17S, R-27E, a distance of approximately seven (7) miles from our proposed location. We would like to open a new pit located in NW/NE of Sec. 5, T-17S, R-28E which is a distance of approximately two (2) miles from our proposed location.

Harvey E. Yates Company, Inc. Gates Federal Deep #1 Eddy County, New Mexico Page 2

- B. Please contact Mr. Bill Sweatt with Sweatt Construction Company prior to the archaeological inspection so that he may accompany the inspector to the location of the proposed new caliche pit.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
  - A. Waste will be buried in reserve pits at a depth of 24". The well site will be cleaned of all waste and this will be done within 30 days after completion of this well.
- 8. ANCILLARY FACILITIES:

A. None required.

- 9. WELLSITE LAYOUT:
  - A. Exhibit C shows the relative location and dimensions of the well pad, reserve pits and major rig components.
  - B. The terrain is slightly hilly with various grasses on the surface.
- 10. PLANS FOR RESTORATION OF THE SURFACE:
  - A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite as pleasant in appearance as possible.
  - B. If the proposed well in non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United State Geological Survey will be complied with and will be accomplished as quickly as possible. All pits will be filled and leveled within 90 days after abandonment.

#### 11. OTHER INFORMATION:

- A. The surface is Federal surface.
- B. The topography consists of slightly rolling hills with various grasses. No wildlife was observed, but the inhabitants of this region are jackrabbits, reptiles, coyotes, etc.
- C. There are no ponds, lakes, streams or rivers in this area.
- D. There are no occupied dwellings or windmills in the area of the proposed wellsite.
- E. There is no evidence of any archeological, historical or cultural sites in the area.

Harvey E. Yates Compa , Inc. Gates Federal Deep #1 Eddy County, New Mexico Page 3

#### 12. OPERATOR'S REPRESENTATIVES:

A. The field representatives responsible for assuring compliance with the approved surface use and operation plan are:

Drilling:

Jim O'Briant O'Briant Engineering Company 316 Building of the Southwest Midland, Texas 79701 Office Phone: 915-683-3172 Mobile Phone: 915-683-4044 Home Phone: 915-694-8907

Fred G. Yates Harvey E. Yates Company, Inc. Suite 1000 Security National Bank Building Roswell, New Mexico 88201 Office Phone: 505-623-6601 Mobile Phone: 505-623-0989 - Unit 4109 Home Phone: 505-622-5387

## 13. CERTIFICATION:

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 Harvey E. Yates Company, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

Name and Title

Y DEPARTMENT



EXHIBIT B Harvey E. Yates Company, Inc. Gates Federal Deep #1 Eddy County, New Mexico







# CHUKE MANIFOLD MORANCO #3 1500 SERIES

EXHIBIT D Harvey E. Yates Co., Inc. Gates Federal Deep "1 Eddy County, Rew Mexico



EXHIBIT E



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