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Application Harvey E. Yates Company Young Deep Unit #44 Section 4, T18S, R32E Lea County, New Mexico

In conjunction with Form 3160-3, Application For Permit To Drill Or Deepen subject well, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 10.

- 1. Geologic Name of Surface Formation: Quaternary allunium and bolson deposits
- Estimated Tops of Significant Geologic Markers: Rustler 1,150', Yates 2,600', Seven Rivers 3,060', Bowers 3,525', Queen 3,765', Penrose 4,000', Grayburg 4,255', Premier 4,695', San Andres 4,750', Delaware 5,000', Bone Springs 5,890', BSPG 1st Sand 7,700', BSPG "B" Zone 7,925', BSPG 2nd Sand 8,350', BSPG "C" Zone 8,830', BSPG 3rd Sand 8,925', Wolfcamp 9,100', Penn. Shale 10,725', Strawn 11,450', Atoka 11,850'.
- Estimated Depths at which Water, Oil, or Gas Formations are expected: Oil: Bone Spring 1st sand @ 7,700 Gas: Bone Spring 1st sand @ 7,700
- 4. Proposed Casing Program: See Form 3160-3
- 5. Pressure Control Equipment: BOP & Annular. See Exhibit C.
- 6. Drilling Fluid Program: See Form 3160-3
- 7. Auxiliary Equipment: Rotating Head
- 8. Testing, Logging, & Coring Program: Rotary sidewall cores will be taken, and two DSTs are planned for the Wolfcamp, or Atoka. The planned logs are Schlumberger Platform Express w/HALS, and BHC sonic.
- Abnormal Conditions, Pressures, Temperature, or Potential Hazards: No abnormal conditions are anticipated in this well bore. BHST 170 deg F BHP 2,000 psi
- 10. Anticipated Starting Date & Duration of Operation: Spud Date: Approximately July 1, 2000. Duration of this project will be approximately 50 days from start of Construction of drilling pad until finish of completion operations

Surface Use Plan Harvey E. Yates Company Young Deep Unit #44 Section 4, T18S, R32E Lea County, New Mexico

1. Existing Roads:

Exhibit A is a portion of a New Mexico map showing the location of the proposed location. The location is approximately 12 miles South of Maljamar, NM. Leave Artesia on U.S. 82 & travel 31 miles east to the junction of NM 529. Turn Southeast and go 7 miles. Turn right & go 1.75 miles & turn left. Go .1 miles & turn left. Go .5 miles & turn left. Go .2 mile to location.

2. Planned Access Roads:

1,100' of new road will be built to access this well.

- 3. Location of Existing Wells: See EXHIBIT B
- 4. Location of Tank Batteries, Electric Lines, Etc: In the event a producing well is drilled, a tank battery will be built on the location.

5. Location and Type of Water Supply: Water will be obtained from commercial sources.

Source of Construction Material: We will use materials from the primary and auxillary reserve pits to build the location.

7. Methods of Handling Waste Disposal:

Waste will be handled in an approved manner. The wellsite will be cleaned of all waste within 30 days of final completion of the well.

8. Ancillary Facilities:

N/A

9. Wellsite Layout:

a. EXHIBIT D shows the relative location and dimensions of the well pad, reserve pits, and major rig components.

- b. The land is relatively flat with sandy soil and sand dunes.
- c. The pad and pit area have been staked.

10. Plan for Restoration of the Surface:

a. After drilling and completion operations are completed, all equipment and other materials not needed for further operations will be removed. Pits will be back filled and the location cleaned of all trash to leave the wellsite as pleasant in appearance as possible.

b. If the proposed operation is nonproductive, all restoration and/or vegetation requirements of the BLM 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 and mineral owner is the Federal Government. The grazing Lesee is Williams & Sons Cattle Co. and they have been contacted regarding operations.

b. The topography consists of sandy soil with native grasses. No wildlife was observed, but the usual inhabitants of this region are Jackrabbits, Reptiles, Coyotes, etc.

c. There are no ponds, lakes, or rivers in this area.

d. An Archaeological Survey has been made and a copy has been sent to the Roswell BLM office. There is no evidence of any significant archaeological, historical, or cultural sites in the area. Further, there are no occupied dwellings or windmills in the area.

e. Should any incidental oil be recovered during testing of this well, this oil will be considered waste oil and not sellable due to contamination by drilling and/or completion fluids.

12. Operator's Representative:

I certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; that the work associated with operations proposed herein will be performed by Harvey E. Yates Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Bob Williams Drilling Superintendent Harvey E. Yates Company P.O. Box 1933 Roswell, NM 505-623-6601

June 1, 2000

Bot Willion

Bob Williams Drilling Superintendent

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Roswell Resource Area P.O. Drawer 1857 Roswell, New Mexico 88202-1857

Statement Accepting Responsibilities for Operations

Operator Name:Harvey E. Yates CompanyStreet or Box:P.O. Box 1933City, State:Roswell, New MexicoZip Code:88202

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No.: NMLC-064638

Lease Name: Young Deep Unit #44

Legal description of land: Sec 4, T18S, R32E, Lea County, New Mexico

Formation(s) (if applicable): Bone Springs

Bond Coverage: (State if individually bonded or another's bond): Blanket Bond

BLM Bond File No.:

Authorized Signature: Bobly allia

Title: Drilling Superintendent

Date: June 1, 2000

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artonia, NM 86211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, BANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department.

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.0. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35140	Pool Code	Wildcat Stra	
Property Code 12993	-	DEEP UNIT	Well Number 44
OGRID No.		ator Name YATES COMPANY	Elevation 3857
	Surfa	ce Location	

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	7		
	1		10 0	70 -			Horay bodan tine	reet from the	East/West line	County	
1	J	4	18 5	32 E		1850	SOUTH	2310	EAST	IFA	
			4								

Bottom Hole Location If Different From Surface

i	UL or lot No.	Section	Township	Demos						
		Decuon	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	1		Ì							
	Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Ore	ier No.				
L										

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 4	LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
40.18 ACRES	40.29 ACRES	40.41 ACRES	40.52 ACRES	Bob Williams Bob Williams Printed Name Drilling Superintendent Title June 01, 2000 Date
	3862.3' 3861.2' O 3855.7' 3855.8' DETAIL	NMLC-064638 SEE DETAIL	2310'	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual curveyor made by me or under my supervison, and that the sone is true and correct to the best of my bellar. MAY 25, 2000 Date Surveyod LMP Signature & Seal of Protoperional Surveyor DEMALL CUMP, 5/26/00 GAEY EDSON 3239 GAEY EDSON 3239 GAEY EDSON 12641 MACON MCDONALD 12185

VICINITY MAP



SCALE: 1'' = 2 MILES

-YOW

SEC. <u>4</u> TWP. <u>18</u>—<u>S</u> RGE. <u>32</u>—<u>E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>1850' FSL & 2310' FEL</u> ELEVATION <u>3857</u> OPERATOR <u>HARVEY E. YATES COMPANY</u> LEASE <u>YOUNG DEEP UNIT</u>

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERFICATION MAP



SCALE: T = 2000 SEC. <u>4</u> TWP.<u>18-S</u> RGE.<u>32-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>1850' FSL & 2310' FEL</u> ELEVATION <u>3857</u> OPERATOR <u>HARVEY E. YATES COMPANY</u> LEASE <u>YOUNG DEEP UNIT</u> U.S.G.S. TOPOGRAPHIC MAP MALJAMAR, N.M. CONTOUR INTERVAL: MALJAMAR, N.M. – 10'

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

EXHIBIT "C" BOP STACK

Young Deep Unit #44 1,850' FSL & 2,310' FEL Sec 4, T18S, R32E Lea County, NM





WEST

EXHIBIT D

EAST

Casing Design



EXHIBIT "F"

Harvey E. Yates Company Young Deep Unit #44 Sec 4, T18S, R32E 1850' FSL & 2310' FEL Lea County, New Mexico

11.3-95 at 1205 Pm

Bob Williams & S. andy Contez BLM Lested with a Sensedyne pump the Young Deep #1 central batteny & # 11 Battery. (Stock TANK) Results - Central BAHERY 2 PPM HES ST. Vapors Wolfenmp Z PPIN BONE SPRINGS O.O PPM Site Carpores Central Battery wells #8, #2, #7, #9, #21, #10, 6, 2, 26 # 11 Battien wells 7PPIN H2s Stock TANK UMPORS # 4 # 11, # 13, # 11, # 15, # 16, # 17, 22

Bot Williame WITNESS