orm 3160-3 (July 199	19Z)		1 1 1 1 1	ITED STATES								
ervey E. Yatas Comp	ipeny	_						г				
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT									5. LEASE DESIGNATION AND SERIAL NO.			
APPLICATION FOR PERMIT TO DRILL OR DEEPEN									NM NM -100590 9. IF INDIAN, ALLOTEE OR TRIBE NAME			
. TYPE OF WORK		LICATIC			MILL OR DEL		· · · · · · · · · · · · · · · · · · ·		. F MUAA, ALLUN	EE OR IRIGE N	AME	
. THE OF HORK		DRILL	×	DEEPEN				5	. UNIT AGREEMENT		·····	
. TYPE OF WELL									P	EARSALL 6	FED	
୦୫L 		GAS		-	SINGLE ZONE X	n	ZONE	-	6. FARM OR LEASE NAME, WELL NO. 2			
WELL X		WELL	ОТН	:K	ZONE	<u></u>	ZUNE		APIWELL NO.			
ARVEY E. YATE		r						ľ	3D-0	025	-355	88 -
ADDRESS AND TEL					······································			·····	O. FIELD AND POO	L, OR WILDCA	T	ZZ
P.O. BOX 1933, R											E SPRINGS NO	RTH
LOCATION OF WEL AT SURFACE	TON OF WELL (REPORT LOCATION CLEARLY AND IN ACCORDANCE WITH ANY STATE REQUIREMENTS) RFACE 660' FSL & 1,980' FEL							11. SEC., T., R., M., OR BLK AND SURVEY OR AREA SEC 6, T18S, R32E				
AT PROPOSED PRO	ROD. ZONE		SAME	0					2 COUNTY OR PAR		13. STATE	
4. DISTANCE IN MILE	ES AND DIRECT		EST TOWN OR PO									
6. DISTANCE FROM	PROPOSED				16. NO. OF ACRES	IN LEASE			F ACRES ASSIGNE	D		
LOCATION TO NE								тот	HIS WELL			
Also to necrest d		16 Y)		660'		480				40		
8. DISTANCE FROM					19. PROPOSED DE			20. ROT	ARY OR CABLE TOO			
TO NEAREST WE												
OR APPLIED FOR				N/A		9,600		L	F APPROX. DATE WO		от	
I. ELEVATIONS (Sho	sow whether DF, 3,809'	r. (, WK, SC.)							HERUA. DATE WO	06/01/0		
3.				PROPOSED CA	SING AND CEMENTING	G PROGRAM						
SIZE OF H	HOLE	GRADE, SIZE OF	E CASING	WT PER FT	SETTING		· · · · · · · · · · · · · · · · · · ·		OLIANTI	TY OF CEMENT		
17 1/2		+	V8" H-40	48#			425 SX "C" W	2% CA			WATNE	66
11 1/4				1 40#	400' (See 1	EXAMPLE (C)		* W/2% CACL & 1/4# CELLOSEAL			and the second se	
12 1/4	4"		/8" J-55	32#	400" (See 1 3,1		350 SX "C" W	/2% CA	CL & 1/4# CELL	OSEAL, 1,00		
12 1/4 7 7/8 ALL CASING WIL EMENT WILL B EMENT QUANT FILLER CEMEN LEAD: 1000 SX	8" ILL BE NEW, (BE CIRCULAT TITIES AND A NT 35/65 "C" F X "H" POZ W/	8 5 5 1/ (SEE E) OR USED MEE ED ON 13 3/8" DDITIVES ARI 202 w/ 6% GEI 2% GEL & 5# 5	/8" J-55 /2" J-55 XHIBIT "E") TING BLM SPI AND 8 5/8" CA E SUBJECT TO L, 6# SALT, & 1 SALT PER SAC	32# 17# ECS. ISING. ICHANGE DUE TO /4# FLOSEAL ICK	3,1 9,6 HOLE CONDITIONS.	800.	350 SX "C" W 1000 SX LEAT	/2% CA 0 & 400	CL & 1/4# CELL SX TAIL **	teri Wel		
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Application Harvey E. Yates Company Pearsall 6 Fed #2 Section 6, T18S, R32E Eddy 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 940', Yates 2,310', Bowers 3,360', Queen 3,630', Penrose 3,890', Grayburg 4,210', Loco Hills 4,335', San Andres 4,710', Delaware 5,000', Bone Springs 6,050', BSPG 1st Sand 7,850', Top "B" Sand 8,620', Top "C" Sand 8,790', Base "C" Sand 8,930, "C" Zone 9,050, 3rd Sand 9,200', Wolfcamp 9,480, PTD 9,600'.
- Estimated Depths at which Water, Oil, or Gas Formations are expected: Oil: Bone Spring 1st sand @ 7,850 Gas: Bone Spring 1st sand @ 7,850
- 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: H2S Compliance package
- Testing, Logging, & Coring Program: One DST is planned for the "B-C" Zone Carbonates. The planned logs are GR, CNL-ZDEN, DACS, DLL-MLL logs.
- Abnormal Conditions, Pressures, Temperature, or Potential Hazards: No abnormal conditions are anticipated in this well bore.
 BHST 160 deg F
 BHP 2000 psi
- 10. Anticipated Starting Date & Duration of Operation: Spud Date: Approximately June 1, 2001. Duration of this project will be approximately 40 days from start of Construction of drilling pad until finish of completion operations

Surface Use Plan Harvey E. Yates Company Pearsall 6 Fed #2 Section 6, T18S, R31E 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 20 miles SouthWest 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 to NM 126. Turn South & go 2.6 miles. Turn right & go .6 miles. Turn right & go .4 miles. Turn left & go .5 miles. Turn right & go .3 miles to location.

2. Planned Access Roads:

1,020' of new road will be built to access this location.

- 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.

6. 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 & Son Cattle Company, 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

March 27, 2001

Bro Williams

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.: NMNM-100590

Lease Name: Pearsall 6 Fed #2

Legal description of land: Sec 6, 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: Both illion

Title: Drilling Superintendent

Date: 3-27-01

DISTRICT I P.0. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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OIL CONSERVATION DIVISION

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

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV P.0. BOX 2088, SANTA FE, N.M. 87504-2088		WELL LOCATION AND ACREAGE DEDICATION PLAT					AMENDE	D REPORT		
API Number			Pool Code				Pool Name			
30-02	<u>5-35</u>	588		65350		Young Bone St	orings North	1		
Property Code				עדונו	Property Nam			Well Num	Well Number	
28097		L	PEARSALL 6 FEDERAL						2	
OGRID No. 10179				HARVE	Operator Name Y E. YATES			Elevatio 3809		
					Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
0	6	18-S	32-E		660	SOUTH	1980	EAST	LEA	
			Bottom	Hole Lor	notion If Diff.	Tomt Enon Com	¢	L	I	

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	ler No.	<u> </u>		L	<u> </u>

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
40.94 AC	40.02 AC	40.04 AC	40.05 AC	best of my knowledge and belief. Bob Williom Signature
LOT 5				Bob Williams Printed Name Drilling Superintendent Tite March 27, 2001 Date
40.95 AC LOT 6				SURVEYOR CERTIFICATION I hereby certify that the well location shown
				on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
40.97 AC				MARCH 19, 2001 Date Surveyed AWB Signature & Seal of
		NMNM-100590 3808.2' 3813.5'	1980'	Professional Surveyor Amally Caselon 03/22/01 Q1-11-0361
40.99 AC		3805.0' 3807.6'		Certificate No. RONALD 7. EIDSON 3239 GARY, EIDSON 12641

State of New Mexico

Energy, Minerals and Natural Resources Department

VICINITY MAP



SEC. <u>6</u> TWP. <u>18–S</u> RGE. <u>32–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>660'FSL & 1980'FEL</u> ELEVATION <u>3809'</u> OPERATOR <u>HARVEY E. YATES COMPANY</u>

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

Corrected 'A' ION VERFICATION MAP

Corrected access road



LOCATION VERFICATION MAP



EXHIBIT "C" BOP STACK
Pearsall 6 Fed #2

Pearsall 6 Fed #2 660' FSL & 1,980' FEL Sec 6, T18S, R32E Lea County, NM



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SOUTHEAST

Casing Design



From surface to 400' — 400' 13 3/8'', 48#/Ft, ST&C, H-40 Casing. Cement circulated to surface

TO REDUCE RISK OF COLLAPSE OF 5 1/2" CASING, WE WILL STOP AND FILL CASING WITH DRILLING MUD EVERY 50 JOINTS WHILE RUNNING CASING. ¥:

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ed that operators filter cake across

sing depth. If surface pud mud may be sh water may be

and gels may be used

1 in order to control

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fereed to the Roswell



