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Form 3160-3 (July 1992)								102		- //1	.8
Harvey E. Yates Company			ED STATES	00					<u>'a'</u>		\$v7
			T OF THE INTER				5.	LEASE DESIGNAT	NAME OF CONTRACT OF CONTRACT.		
			AND MANAGEMEN		EDENI						
	PLICATION	FUK PE	RMIT TO DRII	L OK DE	EPEN		6.	IF INDIAN, ALLOTE	E OR TRIBE NAM	1E 9 50	5717
1a. TYPE OF WORK	DRILL X			1			-			27-	
D. TYPE OF WELL				J			<i>.</i>	UNIT AGREEMENT	ARKER DEEP	5 FED COM	
OIL	GAS			SINGLE		MULTIPLE	8.	FARM OR LEASE			
WELL	WELL X	OTHER		ZONE	X	ZONE			2		
2. NAME OF OPERATOR		1.	1179				9.	APIWELL		7.0	44
HARVEY E. YATES COMPAN	Y	1	////							-315	78
3. ADDRESS AND TELEPHONE NO. P.O. BOX 1933, ROSWELL, N	EW MEXICO 88202	505-623-660	11				10). FIELD AND POOL	., OR WILDCAT HUGART MOR		н
4. LOCATION OF WELL (REPORT LC				REMENTS)			11	I. SEC., T., R., M., C			<u></u>
AT SURFACE	•	6 FNL & 1,9	BO' FWL		1.			AND SURVEY OR	AREA		
	157			. V	Y		L	SEC 5, T185, R31E			
AT PROPOSED PROD. ZONE	SAI	ΛE		101	•			12 COUNTY OR PARISH 13. STATE			
14. DISTANCE IN MILES AND DIRECT			OFFICE	v			E	DDY		NM	
14. DISTANCE IN MILES AND DIRECT	10 MILES SOUTH										
15. DISTANCE FROM PROPOSED	10 111220 000 111			16. NO. OF ACRI	S IN LEASE		17. NO. OF	ACRES ASSIGNE	D		·····
LOCATION TO NEAREST							1	IS WELL			
PROPERTY OR LEASE LINE, FT.				1							
(Also to nearest drig. unit line, if	any)		1,370'	ļ	40				319.96		
18. DISTANCE FROM PROPOSED LC				19. PROPOSED	DEPTH		20. ROTAI	RY OR CABLE TOO	NLS		
TO NEAREST WELL DRILLING, O			NONE		44.000				OTADY		
OR APPLIED FOR, ON THIS LEAS 21. ELEVATIONS (Show whether DF,			NONE		11,900		Ia	PPROX. DATE WO	OTARY		
3.675'	K1, GR, etc.)						r	PPROX. DATE WU	1-Feb-00		
23.			PROPOSED CASING	AND CEMENT	NG PROGRAM						
SIZE OF HOLE	GRADE, SIZE OF CAS	ING	WT PER FT	SETT	NG DEPTH			QUANTIT	Y OF CEMENT		
17 1/2"	13 3/8" H		48# ST&C BRD	*360 550 425 SX "C" w/ 2% (THES	6
12 1/4"	8 5/8" J		32# ST&C 8RD		4450			L & 1/4# FLOS	EAL 1500 SX	IBLERVIN	
7 7/8"	5 1/2" J-55, NE	0 & 5-95	17# LT&C 8RD (SEE EXHIBIT "E")	1	1900	1100 SX LEA	D & 400 S	SX TAIL **		· · · · · · · · · · · · · · · · · · ·	
ALL CASING WILL BE NEW,	OR USED MEETING	BLM SPEC		1					·		
CEMENT WILL BE CIRCULA CEMENT QUANTITIES AND A FILLER CEMENT 35/65 "C" LEAD: 1100 SX "H" POZ w/ TAIL: 500 SX "H" w/ 3% KC	ADDITIVES ARE SU POZ w/ 6% GEL, 5# 12% GEL & 5# SALT	BJECT TO C SALT, & 1/4 PER SACK	HANGE DUE TO HOLE # FLOSEAL RSENT, 1% BONDING /	AGENT, .3% RI	ETARDER, & .29			TE PER SACK) WAT	er ba	SIN
				ROPOSED ML	ID PROGRAM						
0-350 550			HALE GUARD. MW-9. HALE GUARD. MW-10								
3100-8800			IGUARD, & AMMONIA		0.000 CHLORID	ES MW-9.0 VIS	5-31				
8800-11,900			000 CHLORIDES, MW								
MUD PROGRAM SUBJECT TO C											
IN ABOVE SPACE DESCRIBE PROP deepen directionally, give pertinent							proposal is	to dirill or			
24. SIGNED Bob L	illion_		Bob Williams	TITLE	Drilling Sup	erintendent		DATE_	11/15/00		
(THIS SPACE FOR FEDERAL OR ST	ATE OFFICE USE)		······································								<u> </u>
PERMIT NO.	· • · · · · · · · · · · · · · · · · · ·			APPROVAL DAT	re						
APPLICATION APPROVAL DOES NOT WARRANT	OR CERTIFY THAT THE APPLICA	T HOLDS LEGAL OR	EQUITABLE TITLE TO THOSE RIGHT	S IN THE SUBJECT LEAS	E WHICH WOULD ENTITLE	THE APPLICANT TO CON	NDUCT OPERAT	IONS THEREON			
CONDITIONS OF APPROVAL IF ANY	':					mat Product at	5 # ··				
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APPROVED BY				TITLE				DATE_			
TITLE 18 U.S.C. SECTION 1001, UNITED STATES ANY FALSE, FI								FTHE		Net) Fr	H a
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SPECIAL ST	IPULATIONS



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Application Harvey E. Yates Company Parker Deep 5 Fed Com #2 Section 5, T18S, R31E 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 470', Yates 1,930', Seven Rivers 2,250', Bowers 2,700', Queen 2,945', Penrose 3,150', Grayburg 3,415', Loco Hills Sand 3,565', San Andres 3,965', Delaware 4,390', Bone Springs Ls 5,365', BSPG 1st Sand 7,410', BSPG "B" Zone 7,425', BSPG 2nd Sand 7,725', BSPG "C" Zone 8,400', BSPG 3nd Sand 8,725', Wolfcamp 8,900', Penn. Shale 9,900', Strawn 10,750', Atoka 11,025', Morrow Clastics 11,525', L. Morrow Mkr. 11,700'.
- Estimated Depths at which Water, Oil, or Gas Formations are expected: Oil: Bone Spring 1st sand @ 7,410 Gas: Bone Spring 1st sand @ 7,410
- 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
- 8. Testing, Logging, & Coring Program: Possible rotary sidewall cores will be taken, and one DST is planned for the Wolfcamp, or Atoka. The planned logs are Schlumberger Platform Express w/HALS.
- Abnormal Conditions, Pressures, Temperature, or Potential Hazards: No abnormal conditions are anticipated in this well bore.
 BHST 170 deg F
 BHP 4300 psi
- 10. Anticipated Starting Date & Duration of Operation: Spud Date: Approximately February 1, 2001. Duration of this project will be approximately 50 days from start of Construction of drilling pad until finish of completion operations

UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Statement Accepting Responsibility 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.: NM-068038

Lease Name: Parker Deep 5 Federal Com #2

Legal Description of Land: 1,370' FNL & 1,980' FWL, Sec 5, T18S, R31E Eddy County, New Mexico

Formation(s) if applicable: Shugart Morrow North

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

Authorized signature: Bol (1) Il. **Bob Williams**

Title: Drilling Superintendent

Date: November 16, 2000

Surface Use Plan Harvey E. Yates Company Parker Deep 5 Fed Com #2 Section 5, T18S, R31E Eddy 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 40 miles east of Artesia, NM Leave Artesia on U.S. 82 & travel east to the junction of Eddy County 222. Turn South and go 2.4 miles. Turn right on caliche road, and go .6 miles to location.

2. Planned Access Roads:

Existing road will be re-routed around location.

- 3. Location of Existing Wells: See EXHIBIT B
- Location of Tank Batteries, Electric Lines, Etc: In the event a producing well is drilled, a tank battery will be built on the location. See EXHIBIT B
- 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.
- 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 and Sons Cattle Company. They have been contacted regarding this operation.

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

November 16, 2000

Bob William

Bob Williams Drilling Superintendent

DISTRICT I P.O. Box 1990, Hobbs, NM 58241-1980

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

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

DISTRICT IV P.O. BOX 2088, SANTA 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.O. Box 2088

Santa Fe, New Mexico 87504-2088

I AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code	Pool Name		
Property Name	Well Number		
PARKER DEEP 5 FEDERA	AL COM 2		
Operator Name	Elevation		
HARVEY E. YATES COM	IPANY 3678		
	PARKER DEEP 5 FEDERA		

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	5	18 S	31 E		1570	NORTH	1980	WEST	EDDY

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 Acre 3/9.96	Joint o	r Infill Co	nsolidation (Code Or	der No.				

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

- 1570'		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		$\frac{Bob William}{Signature}$ $\frac{Bob William}{Printed Name}$ $\frac{DRLC SUPT}{Title}$ $11-30-00$
Parker Deep 5 Fed Com.#1 *		Date 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.
VED VIDIS: 24 NEW JUNEWIEW	ECER 100002	NOVEMBER 28, 2000 Date Surveyed LMP Signature & Seal of Professional Surveyor Description 11/30/00 00-11-1554 Certificate Na. RONALD 1.21050N 3239 CARY EDSON 12641 PALON MCDONALD 121641

LOCATION VERFICATION MAP



-VICINITY MAP



SCALE: 1" = 2 MILES

SEC. <u>5</u> TWP. <u>18–S</u> RGE. <u>31–E</u> SURVEY______N.M.P.M. COUNTY______EDDY DESCRIPTION <u>1570' FNL & 1980' FWL</u> ELEVATION______3678 OPERATOR <u>HARVEY E. YATES COMPANY</u> LEASE <u>PARKER DEEP 5 FEDRERAL COM</u>



EXHIBIT C BOP STACK

Parker Deep 5 Fed Com #2 1,370' FNL & 1,980' FWL Sec 5, T18S, R31E Eddy County, NM



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SOUTH

EXHIBIT "E" CASING DESIGN

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Parker Deep 5 Fed Com #2 1,370' FNL & 1,980' FWL Sec 5, T18S, R31E Eddy County, NM



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EXHIBIT "F"

Harvey E. Yates Company Parker Deep 5 Fed Com #2 Section 5, T18S, R31E Eddy County, New Mexico

HYDROGEN SUFFIDE DRILLING OPERATIONS PLAN

I Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis will show proof of training from a qualified instructor in the following areas before commencing any work on the above named well.

- 1. The hazards and characteristics of hydrogen sulfide (H²S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H²S detectors, alarms, warning signs, briefing areas, and evacuation procedures.
- 5. The proper technique for rescues.

II H²S Safety Equipment and Systems

All H²S safety equipment and systems will be installed 1,000 feet prior to penetrating the first zone containing or reasonably expected to contain H²S.

- 1. Well Control Equipment
 - A. Choke manifold with a minimum of two adjustable chokes.
 - B. Blind and pipe rams to accommodate all pipe in use.
 - C. Auxiliary equipment to include annular preventer and rotating head.
- 2. Protective equipment for essential personnel
 - A. Four 5 minute escape units in top dog house.
 - B. One 30 minute SCBA at each briefing area.
- 3. H²S detection and monitoring equipment
 - A. Three channel monitor located on floor, with detectors located on floor, on flow nipple, and on flow line on mud pit.
- 4. Visual Warning Systems
 - A. Windsock located on floor and mud pits.
 - B. Briefing area signs located on NE & SW corners of pad.
 - C. H²S Condition sign located at entrance to location.
- 5. Mud Program

The mud program has been designed to minimize the volume of possible H²S circulated to surface. Proper weight, safe drilling practices, and the use of H²S scavengers will minimize hazards when penetrating possible H²S bearing zones.