			UPER. U		WUU		<u>_</u>	1		/
Forma 3160-3			PROPER	ATY NO	572-54	273	- JATE		approved.	/
(December 1990)		UNITE	D POOL C	ODF	599	45	F 00	Budg	et Bureau N	0. 1004-0136
	DEPA	RTMENT	0 1		9/14	195		_		ber 31, 1991
		JREAU OF L	EFF. UA			- 0016	$\overline{1}$			V V
		N FOR PEF	- ADI NO	<u></u>	1-025	- 3310) 5 5 9 5 3 9 N, Allotter	OR TRIBE NAME
API a. TYPE OF WORK	FLICATIO									
-	DRILL 🛛		DEEPEN				-	7. UNIT AG	BREEMENT NA	MB
OIL	GAS					MULTIP		S. FARM OR I	LEASE NAME, WELL	NO.
WELL LA 2. NAME OF OPERATO	WELL	OTHER		20		ZONE			s Fede	
		m Corpor	ation					9. AN WELL		141 15
P. O. BO			Deer	. 1 1	NN 000		-	4	AND POOL, OR	WITER
LOCATION OF WELL		on clearly and in	ACCORDANCE WI	th any f	NM 882 State requireme	02 ents.*)			ste Dra	T
At surface	660' FN	L & 2310	' FEL				-	11. явс., т	., R., M., OR BI	LE.
At proposed prod.										
4. DISTANCE IN MI		M C NEARER	T TOWN OR POP	T OFFIC	B.+				19-T2	3S-R32E 18. STATE
		arlsbad.						Lea		New Mexi
15. DISTANCE FROM P LOCATION TO NEA	REST		~ .	16. NO). OF ACRES IN			ACRES ASS		
	drig. unit line,		0'					40		
18. DISTANCE FROM TO NEAREST WEL OR APPLIED FOR, OF	L, DRILLING, COM	PIETEN	. 100 '	19. PR	OPOSED DEPTH		20. ROTAR	Rotary		
21. ELEVATIONS (Show								22. APPROX. DATE WORE WILL START*		
			3645' G	L				Octo	ber 1.	1995
3.		PR	OPOSED CAS	ING ANI	CEMENTING	PROGRA	м			
SIZE OF ROLE	ORADE, SIZ	28 OF CASING	WEIGHT PER F	TOOT	SETTING	DEPTH		QUANTI	TY OF CEMENT	ſ
14 3/4"		<u>4"WC-40</u>	42.0#		550		The subscription of the local division of th	400 s		
<u> </u>	<u>8 5/8</u> 5 1/2		<u>24 &</u> 15.5-	<u>32#</u> 17#		BACK	1200	35/65	Poz +	<u>150 "H"</u> /50 POZ
	0 1/2	K UU	10,0-	17#	3900		41400	SX 30	/65-50	/50 PUZ
Mud Program	<u>n:</u>				Mud	Wt.	Vi	.S.	W/L	Control
		water w/Ge		d:	8.4-9.			-38		L control
		rine w/gel water w/ge		h۰	9.0-10 8.4-8.1			28-30 No W/L contr 29-31 W/L cont. 10		
4000 0	500. HICSH	HULCI H/gu			0.4 0.0	o bhe	23	51	W/L C	ont. 10-1500
BOP Program		for Tuno "F	" double i	nom D(D will be	install	ad an th	- 0 E /0	ll anning	Cooing and
BOP will be									casing.	Casing and
		C	· ·							•
									Part P	a 23
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ABOVE SPACE DESC	CRIBE PROPOSED	PROGRAM: If prop	osal is to deepen.	, give dats	on present prod	luctive zone	and proposed a	new producti	ve zone. If pro	pasal is to drill dr
epen directionally, give	pertinent data on su	bsurface locations a	nd measured and I	true vertica	al depths. Give b	lowout preve	nter program, il	fany.		<u> </u>
4	i se no se			-	gent for					S.
BIGNED		- Mara	TI'	ті.еНі	irvard	Pet_C	Corp	DATI	July	28, 1995
(This space for l	Federal or State	office use)							ROVAL SUE	
	• · · · · · · · · · · · · · · · · · · ·				APPROVAL DAT	E				UIREMENTS AL
PERMIT NO.			nt holds legal or c	quitable ti	te to those rights	in the subject	lease which wo	uld entitle the		ouer operations therec
PERMIT NO	does not warrant or c	ertify that the applica						511	ACHED	
PERMIT NO		ertify that the applica				,				
Application approval		erbity that the applica		/1	1	/		· · · · ·	y chara i menan	
Application approval		ertify that the applica	mile	Un	ling 1	/		DATE		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictilizes or fraudulent statements or representations as to any matter within its jurisdiction.



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District I PO Box 1900, Elebbs, NM 88241-1900 District II PO Drawer DD, Artenia, NM 88211-0719 District III 1000 Rio Brazzo Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minorals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

API Number				² Pool Cade		Post Name						
30-025-33101			59945			Triste Draw West Dat						
* Property					' Pr	operty	Name				•	Well Number
507	3	James	Fede	ra1 "1	19"							4
'OGRID	No.				' O	perator			·····			* Elevation
1015	75	Harva	ra Pe	troleu	ım Cor	por	ation				3	3645
					¹⁰ Sur	face	Location					
UL or lot no.	Section	Township	Range	Lot Ida	Fect from	the	North/South line	Fee	t from the	East/Wes	L line	Cesaty
В	19	23 S	32 E		660		North	2	310	East		Lea
			¹¹ Bot	tom Hol	e Locati	ion I	f Different Fro	om	Surface			*****
UL or lot so.	Section	Tewaship	Range	Lot Ida	Fost from	the	North/South line	Fee	t from the	East/We	t line	Cesaty
¹² Dedicated Acr	ne 1ª Joint	er lafill 1ª C	onsolidatio	n Cede ¹⁴ (order No.			_				
							<u> </u>					
NO ALLO	WABLE						ON UNTIL ALL				EN COI	NSOLIDATED
(ORAI	NON-ST	ANDARD	UNIT H	AS BI	EEN APPROVED	BY				
16									¹⁷ OPEF	RATOR	CER	TIFICATION
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		36	541.4	į	3649.	S						•
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									Harvar	d Petro	bleum	Corporation
									July 2	8, 1999	5	
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APPLICATION FOR DRILLING

HARVARD PETROLEUM CORPORATION James Federal "19". Well No. 4 660' FNL & 2310' FEL. Sec. 19-T23S-R32E Lea County, New Mexico Lease No.: NM-0559539 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well. Harvard Petroleum Corporation submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

Rustler	1120'	Lower Brushy Canyon	8130'
Top/Salado	1470'	Bone Spring	8470'
Delaware	4640'	Bone Spring Sand	8560'
Cherry Canyon	5560'	T.D.	9900'
Brushy Canyon	7125'		

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

Water: Surface water between 100' - 350'.

Oil: Possible in the Delaware 4763'-8400' and Bone Spring below 8500'.

Gas: None.

- 4. Proposed Casing Program: See Form 3160-3 and page 2 this report.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector. Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless conditions warrant.

Logging: T.D. to surface casing: CNL-LDT, DLL and Gamma Ray

Coring: None.

g.

No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 4150 psi (Exc. Hole), Temp. = 155° . No H₂S problem in previous area wells.

10. Anticipated starting date: October 1, 1995. Anticipated completion of drilling operations: Approximately 45 days.



Harvard Petroleum Corporation James Federal "19", Well No. 4 Page 2

Ref. Par. 4:	PROPOSED CASING AND	CEMENTING PRO	OGRAM:	
Hole Size	Casing Size.Grade	Weight/ft	Depth Set	Quantity of Cement
14 3/4"	11 3/4" WC-40	42.0#	550'	Circ. 400 sx "C"
11"	8 5/8" WC-50	24.0#	2500'	
*1	" WC-50	32.0#	2000'	Circ. 1200 Sx 35/65 Poz + 150 sx "H"
7 7/8"	5 1/2" K-55	15.5#	7500'	7000'-3500': 700 sx 35/65 Poz
*1	11 11	17.0#	1700'	
11	" L-80	17.0#	700'	T.D7000': 700 sx 50/50 Poz

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