	y an ka	OPER. OGRIE	DNO. 10155	_~				
Form 3160-3		PROPERTY N	10. 17443	• TE*	Form approved Budget Bureau		-0136	
(December 1990)	UNITE	POOL CODE	52805		Expires: Dec			
			JJUVJ		Meter : de			
	UPPARIMENI (J r					MA	
	W MALE A LEVEL A LEVEL AND A REAL			l VI	I W ant Pr ownativ	A AN HUL	10,	
	BUREAU OF L	ANT EFF. DATE	4/1/46				,	
<u></u>			0 005 0-5	<u> </u>	NM-055953			
	ICATION FOR PER	MAPINO. 3	0-026-325	/66 °	. IF INDIAN, ALLOTT	ES OR TRIBE N	IAMB	
		DEEPEN		7.	. UNIT AGREEMENT	NAMB		
	WELL OTHER			······································	FARM OR LEASE NAME, 1	WELL NO.		
2. NAME OF OPERATOR	troleum Corpor	ation			James Fed	leral "	19"	
3. ADDRESS AND TELEPHONE NO.					3			
P. O. BOX 4. LOCATION OF WELL (F	936 Report location clearly and in		NM 88202. State requirements.*)	10	0. FIELD AND POOL,		Nouth	
A7 9117-076	980' FNL & 231			1	11. SRC., T., R., M., OR BLK. AND SURVEY OR AREA PUNCS			
At proposed prod. so	same				Sec. 19-7	235-R3	Road	
	AND DIRECTION FROM NEARES			11	2. COUNTY OR PARIS	New M	• 1	
34 MITTES S 15. DISTANCE FROM PROP LOCATION TO NEARES			D. OF ACRES IN LEASE	17. NO. OF A	ACRES ASSIGNED	INEW M	<u>exico</u> ·	
PROPERTY OR LEASE (Also to nearest dri	LINE, FT. 331 g. unit line, if any)		1440		40			
18. DISTANCE FROM PRO TO NEAREST WELL, I or Applied For, on the	DRILLING, COMPLETED, Q	950'	0000000 0000 0000 00000 00000000000000	20. ROTARY	om cample tools Rotary			
21. ELEVATIONS (Show wh		3632' GL	<u></u>	· · · · · · · · · · · · · · · · · · ·	22. APPROX. DATE V August 15			
23.	PR	OPOSED CASING AN	D CEMENTING PROGRAM	A				
BIZE OF ROLE	ORADE, SIZE OF CASING	WEIGHT PER FOOT 42.0#	SETTING DEPTH	Cinc.	QUANTITY OF CEM		- <u></u>	
<u> </u>	8 5/8" WC-50	24 & 32#	4500 'TIE'	1200 3	35/65 Poz	+ 150	<u>"H"</u>	
7 7/8"	5 1/2" K-55	15.5-17#	9900 'BACK	1400 \$	35/65-5	50/50 P	0 Z	
Mud Program:			Mud Wt.	Vi	<u>s. 1</u>	W/L Contr	<u>rol</u>	
	50': Fresh water w/G	-	8.4-9.0 ppg	32-		W/L con		
	00': Cut Brine w/gel 00': Fresh water w/g		9.0-10. ppg 8.4-8.8 ppg		28-30 No W/L control 29-31 W/L cont. 10-15cc			
	-							
BOP Program:								
	si wp Shaffer Type " tested before drillir					F =	ig and	
bor with be						C2	(233) (233)	
						.	<0 174	
						2.55 CO		
						2001 2001	171) (72)	
IN ABOVE SPACE DESCRI	BE PROPOSED PROGRAM: If pro	nosal is to deepen, give dat	a on present productive zone :	and proposed ne	w productive zone. 1	f proposal is to	drill or	
deepen directionally, give per 24.	tinent data on subsurface locations a	nd measured and true vertic	cal depths. Give blowout preven	nter program, if a	any.	<u> </u>		
816NED	· igen Same		gent for: arvard Pet. C	Corp.		7 26. 1 VAL SUBJE	995 61 1 0	
	eral or State office use)		APPROVAL DATE		GENER SPECIA	AL REQUIR	REMENTS AN ATIONS	
PERMIT NO	s not warrant or certify that the applic	ant holds legal or equitable t		lease which would				
CONDITIONS OF APPROVA								
			. Starter		2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
APPROVED BY		m.e		· · · · · · · · · · · · · · · · · · ·	DATE	. •. · · ·		

*See Instructions On Reverse Side

B

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 Unite EStates any false, fictuations or fraudulent statements or representations as to any matter within its jurisdiction.

District I PO Box 1988, Hebbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rie Brazes Rd., Astec, NM 87410 District IV PO Box 2083, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerala & Natural Resources Department

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

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT													
APL Number 3 Pool Code					³ Pool Name								
30-02	25-33086 53805				75	5 Triate Draw West S. Sand Dunes B					<u>s BS</u>		
· Property C		* Property Name							• Well Nomber				
1744													
10159		**	ud Dat		1					'Elevation 3632			3632
10125		Harva	ra Pet	ro	Ieun	n Corpo	-			<u></u>		<u> </u>	5052
		<u> </u>						Location	E	for a sha	EndelWar		County
UL or ict so.	Section	Towaship	Range		ida	Feel from th	ŧ		Feet from the 2310		East/West East		Lea
G	19	23 S		1000	Hol	1980	- T	North f Different Fra			East		Цеа
	C	Tomatia	· · · · · · · · · · · · · · · · · · ·	T	HOI			North/South line			East	at line	Cesaty
UL or ict no.	Section	Township	Range			in Fect from the		(vertalgeers end	Fest from the		East/West line Cou		Contraction
12 Dedicated Acr		er Infill "	Concelidatio		1 1 1 1	Drder No.		I	<u> </u>		<u>t</u>		1
40													
• •	VABLE	WILL BE	ASSIGNE	DT	отн	IS COMPLE	TI	ON UNTIL ALL	INTE	RESTS H	IAVE BE	EN CO	NSOLIDATED
ব্রেন্স								EEN APPROVED					
16					1					¹⁷ OPE	RATOR	CER	TIFICATION
										•		-	n contained havein is
					0				1	true and con	npiese so ine	best of my	r knowledge and balig
					8								
					1	M-055953	39					,	
						Amoco Pro	bd	Co.		14	1.3.1.4	es d	Lomite
				ļ						Signature	1	<u> </u>	
	3633.8				3641.27	27			George R. Smith, agen			igent for:	
								2310'				oleum	Corporation
							i			This			
3625.67		ĺ	3633.62					July 26, 1995					
				į.						Horrow	UEVOE		TIEICATION
													TIFICATION
										•	••		ion shown on this plat wal surveys made by
											r my supervi. to the best of		that the same is srue – L
										July	12.	995	-
										Days of Su	PA7		atton
 		+				<u> </u>				Sugara and	Sa Seal of P	(calaa)	Surveyer:
											for the second s	X -	.]
										= \$1	Let MA		: J
										\ <u>\$</u> {`			/
										- n.	NUCLEUNAN	1440	
										Certificate	N		8112

APPLICATION FOR DRILLING

HARVARD PETROLEUM CORPORATION James Federal "19". Well No. 3 1980 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 ¹
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'.

0il: Possible in the Delaware 4763'-8500' 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.

- 9. 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: August 15, 1995. Anticipated completion of drilling operations: Approximately 45 days.

Harvard Petroleum Corporation James Federal "19", Well No. 3 Page 2

Ref. Par. 4:	PROPOSED CASING AND	CEMENTING	PROGRAM:	
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'	
"	" 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
	11 11	17.0#	1700'	
11	" L-80	17.0#	700'	T.D7000': 700 sx 50/50 Poz

.

RECEIVED

ALL DI 1 1950 U C LI 1950 OFFICE

CONDITION I-B 3000 WP

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED





Hos TRIN REQUIRED

NO Y

YES

THERE. THE CONTROL

MATERIAL LIST - CONDITION II - -

• Wellhead

٨

.

- 1000g W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 30020 W.P. Dual run type preventer, hydroulic operated with 1" steel, 30000 W.P. control lines (where substructure beight is adequate, 2 - 30000 W.P. single ran type proventers may be utilized).
- D Rotating Head with fill up owtlat and extended Blooge Line.
- 1.3.4, 24 minimum 30000 M.P. finnyed full opening steel gate 7.5, valve, or Helliburton La Toro Flug valve.
- 2 2" minimum 30006 W.P. back pressure valve.
- 5,6.9)" winimum 10000 W.P. finneed full opening steel gate valve, or Heliburton to Torc Plug valve.
- 12 3" winisum wohedule 20, Grade "B", Geamiess line pipe.
- 1) 2" minimum x 3" minimum 3000\$ W.P. flanged cross.
- 10,11 I" minimum 30000 W.P. adjustable choke bodies.
- 14 Cameron Hud Gauge or equivalent (location eptime) in choke 1104}.
- 15 2" minimum 30006 W.P. Flanged or threaded full opening steel gate valve, or Helliburton to Tors Plug valve.

EXHIBIT "E" HARVARD PETROLEUM CORPORATION James Federal "19", Well No. 3 BOP Specifications