Form 3160-34 (August 1999)

シ

New Mexico Oil Conservation Division, District I 1625 N. French Drive

Hobbs, NM 88240

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

ONTED STATES	-
DEPARTMENT OF THE INTERIOR \nearrow	
BUREAU OF LAND MANAGEMENT	

BUREAU	OF	LAND	MANAGEMENT	

5. Lease Serial No. NM-0559539

APPLICATION FOR PERMIT TO D	6. If Indian, Allottee or Tribe Name							
la. Type of Work: DRILL REENTI		7. If Unit or CA Agree	ment, Name and No.					
_					8. Lease Name and Wel	No (257 2		
1b. Type of Well: Oil Well Gas Well Other		Single Zone	☐ Multip	le Zone	James Federal, We			
2. Name of Operator					9. API Well No.			
larvard Petroleum Corp.			10153	>	30-025-	37778		
3a. Address	3b. Phone	No. (include a	rea code)		10. Field and Pool, or Ex	cploratory		
P.O. Box 936 Roswell, NM 88202	505/ 523	3-1581			Triste Draw Delawa	ıre, West		
4. Location of Well (Report location clearly and in accordance with	any State req	uirements. *)			11. Sec., T., R., M., or B	lk. and Survey or Area		
At surface 660' FNL & 1980' FWL								
At proposed prod. zone same	loit<				Sec. 29-T23S-R32E			
4. Distance in miles and direction from nearest town or post office*	ZVII V	<u> </u>		12.0	12. County or Parish	13. State		
16.5 miles east of Carlsbad, NM				14.5	Lea	NM		
15. Distance from proposed*	16. No. o	f Acres in leas	е	17\Spacing	g Unit dedicated to this we	ell		
location to nearest property or lease line, ft.				[8				
(Also to nearest drig. unit line, if any) 660'	1440			40	- 60 P			
8. Distance from proposed location*	19. Propo	sed Depth			BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft.	8700			્રેટ્ડે NM₹110!	o ***			
1320' 21. Elevations (Show whether DF, KDB, RT, GL, etc.)		oximate date	work will st		23. Estimated duration			
3675' GL	22. Appl		y 9, 20	*** *	3 - 4 weeks			
	24. At	tachments			strelled Water Bes	ka		
The following, completed in accordance with the requirements of Onst	hore Oil and G	as Order No. 1				<u> </u>		
Well plat certified by a registered surveyor.		l 4 Bond	to cover th	ė oneration	s unless covered by an e	xisting bond on file (see		
2. A Drilling Plan.		Iten	20 above).		o united to term of an a			
3. A Surface Use Plan (if the location is on National Forest System	m Lands, the		ator certific		ormation and/or plans as	may be required by the		
SUPO shall be filed with the appropriate Forest Service Office).			orized office		omation and/or plans as	may be required by the		
25. Signature	Na	me (Printed/T	vned)			Date		
hand And	:	George R. Smith				11/28/05		
Title Title		-						
Agent for: Harvard Petroleum Corp.								
Approved by (Signature) Tony J. Herrell	Na	me (Printed/1	• •			Date MAR 3 1 2006		
			s/ Tony	J. Her	rell			
FIELD MANAGER		Tice CAF	RLSBA	D FIE	LD OFFICE			
Application approval does not warrant or certify that the applicant hold	ds legal or equ	itable title to	hose rights i	n the subjec	t lease which would entitle	the applicant to conduct		
operations thereon. Conditions of approval, if any, are attached.				AP	PROVAL FO	R 1 YEAR		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representations a	e it a crime fo	or any person er within its ju	knowingly a risdiction.	nd willfully	to make to any departmen	nt or agency of the United		
*(Instructions on reverse)						•		
						÷		
Lease Responsibility Statement: Harvard Pete	roleum Cor	n accents a	II applicat	ble terms.	conditions, stipulation	ons, and		

restrictions concerning operations conducted on the leased land or portion thereof.

DECLARED WATER BASIN 3 CEMENT BEHIND THE 138 CASING WUST BE

George R. Smith, agent

Declared water basin CEMENT BEHIND THE CASING MUST BE CIRCULATED



APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

District IV						Santa Fe, N	M 8/505			_	٦	(C)	
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30-025-37778 59945 Triste Draw D						Delaware	. W	est					
⁴ Property		T				5 Property				T		⁶ Well Number	
507	3					JAMES 29 F	EDERAL					12	i
7OGRII				· · · · · -		8 Operator	Name		····			⁹ Elevation	l
1015	55			HAR	N/	ARD PETR	OLEUM COI	RP.				3675	
		·					Location						
UL or lot no.	Section	Township	Range	Lot Idn		Feet from the	North/South line	Feet fro	m the	East/West lin	e	County	
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UL or lot no.	Section	Township	Range	Lot Idn	FIO	Feet from the	North/South line	Feet fro		East/West lin	e	County	
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No allowable division.	e will be as	•	· ·		ııı a	ii interests nave	Deen consolidate	uoran	011-214110	iaru unin nas	occii	approved by the	
16		3500000 	200000						17	OPERATO	R CE	RTIFICATION	
		8	Q									ained herein is true and complet	e
		×	999	Ö					l .			nd that this organization either	
		<u>*</u>	- •	×					i			ding the proposed bottom hole this location pursuant to a	
	1980'			8					1	•		; interest, or to a voluntary	•
									pooling ag	reement or a comput	sory pool	ling order heretofore entered by	
		#xxxxxx		008					the division		,		
									Do.	ر کررہ وہ	Ini	11/28/0 Date	5
			N32.280947 N103.69881						Signature	- Cyrin I		Date	
		Lon	. 105.07001						Geor	ge R. St	nith	, agent	
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APPLICATION FOR DRILLING

HARVARD PETROLEUM CORP.

James Federal, Well No. 12 660' FNL & 1980' FWL, Sec. 29-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 Corp. 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	8220'
Salt	1470'	Bone Spring	8470'
Delaware	4640'	Bone Spring Sand	8560'
Cherry Canyon	5660'	T.D.	8700'
Brushy Canyon	7300'		

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

Water: Surface water between 100' - 300'.

Oil: Possible in the Delaware 4640 – 8500' and the Bone Spring below 8500'.

Gas: None expected.

4. Proposed Casing Program:

Ilopoi	ou casing i i	/51 WILL				
HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#	J-55	ST&C	555'	Circ. 400 sx "C"
11"	8 5/8"	24.0#	J-55	ST&C	2,500'	
11"	8 5/8 "	32.0#	J-55	ST&C	4,500'	Circ. 1200 sx 35/65 Poz +100 sx "H"
7 7/8"	5 1/2"	15.5#	K-55	LT&C	6,850'	450 sx 35/65/ Poz + 100 sx "C" neat
7 7/8"	5 1/2"	15.5#	K-55	LT&C	8.700'	400 sx 15/61/11 Poz-C-CSE

5. Proposed Control Equipment: A 10" 3000 psi wp Shaffer Type "E" BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 7 7/8", according to Onshore Oil & Gas Order No. 12 and will be tested weekly. Request variance in testing to the maximum expected surface pressure of 1914 psi.

6	MUD PROGRAM:		MUD WEIGHT	VIS,	W/L CONTROL
	0' - 550':	Fresh water w/gel spud mud:	8.4 - 9.0 ppg	32 - 38	No W/L control
	550' - 1400'	Fresh water w/gel spud mud	8.4 - 9.0 ppg	32 - 38	No W/L control
	1400' - 4500':	Cut Brine w/gel & lime:	9.0 - 12.0 ppg	28 - 30	No W/L control
	4500' - 8700':	Fresh Wtr w/gel & starch:	8.4 - 8.8 ppg	29 - 31	W/L control 12-15 cc +/-

7. Auxiliary Equipment: Blowout Preventer, Kelly cock, flow sensors and stabbing valve.

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless conditions warrant. Logging: T.D. to 4500': GR-CNL-LDT-DLL

T.D. to Surface: GR-Neutron

Coring: Rotary sidewall as dictated by logs.

James Federal, Well No. 12 Page 2

- 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 evacuated BHP = 3480 psi and a surface pressure of 1914 psi with a temperature of 147°.
- 10. H,S: None expected. None in previous wells.
- Anticipated starting date: January 9 2006
 Anticipated completion of drilling operations: Approximately 4 5 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

HARVARD PETROLEUM CORP.

James Federal, Well No. 12 660' FNL & 1980' FWL, Sec. 29-T23S-T32E Lea County, New Mexico Lease No.: NM-0559539 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well; the proposed construction activities and operations plan to be followed in rehabilitating the surface and environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Topographic map showing the location of the proposed well as staked. The well site location is approximately 36.5 road miles east of Carlsbad, NM. Traveling east of Carlsbad on County Rd #605 and NM Highways 31 and 128, there will be 33.5 miles of paved highway and 3 miles of oilfield roads.
- B. Directions: Travel southeast from Carlsbad, NM on County Rd. # 605, the refinery road, for 12.5 mile to NM Highway #31. Turn left on NM #31 for approximately 2.5 miles, and then turn east onto NM Highway # 128 for 17.4 miles. Turn left (north) onto CR-29 and continue north for 1.7 miles; turn right (east) for 1.6 miles to the Little Jack Fed. #1 well pad. The road continues east for 1.0 mile the James Fed. #3 well site. Continue east to the James Fed. #4 well pad and then north for .5 mile to the James Fed. #7 well site. The proposed access road will start at the SW corner of this pad and run west for 850 feet to the southeast corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be approximately 850 feet long. The proposed and existing roads are color coded on Exhibit "A".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None.
- E. Cuts and Fills: Minor cuts to level the 3 4 foot dunes will be required.
- F. Gates, Cattle guards. None required.
- G. Off lease right of way: None required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two-mile radius are shown on Exhibit "C".

James Federal, Well No. 12 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Harvard Petroleum Corp. has production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities will be installed on the drilling pad. A 3" poly SDR 11 oil flow line will run south to the James Fed. #5 and then to the pipeline to the James Fed. Well No. 3 tank battery, 1980' FSL & 2306' FWL, Sec. 29-T28S-R32E.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained from the location, if available, or from a State pit in SE4 SW4 Sec. 32-T23S-R32E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks at the James Fed., Well #1 water disposal well, a BLM approved disposal system.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering by the wind and will be removed for deposit in an approved sanitary landfill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

James Federal, Well No. 12 Page 3

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 500' X 500'.
- B. Mat Size: 255' X 160', plus 120' X 120' reserve pits on the north.
- C Cut & Fill: The location will require a 3-foot cut on the north with fill to the south.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not required for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to be worked.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road are located on top of Bootleg Ridge with a 2.3% slope to the southwest. The location has an elevation of 3675' GL.
- B. Soil: The topsoil at the well site is a brown to yellowish-red fine sand to a fine sandy loam soil with occasional small sand dunes. There may be caliche at a depth of 40 to 60 inches. The soil is part of the Maljamar and Palomas fine sands land complex.
- C. Flora and Fauna: The vegetation cover has a very sparse to fair grass cover of three-awn, sand dropseed, grama and bluestem, with the primary cover being plants of mesquite, yucca, broomweed, shinnery oak brush, sage, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, antelope, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None.
- E. Residences and Other Structures: None in the immediate vicinity, except oil well production facilities.
- F. Land Use: Cattle grazing.

James Federal, Well No. 12 Page 4

11. OTHER INFORMATION: cont.....

- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is no evidence of archaeological, historical or cultural sites in the staked area. Archaeological Survey Consultants, P. O. Box 2285, Roswell, NM 88202, is conducting an archaeological survey and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative for assuring compliance with the approved use and operations plan is as follows:

Jeff Harvard HARVARD PETROLEUM CORP. P. O. Box 936 Roswell, NM 88202 Office Phone: (505) 623-1581

Office Phone: (505) 623-1581 Cell Phone: (505) 626-7938

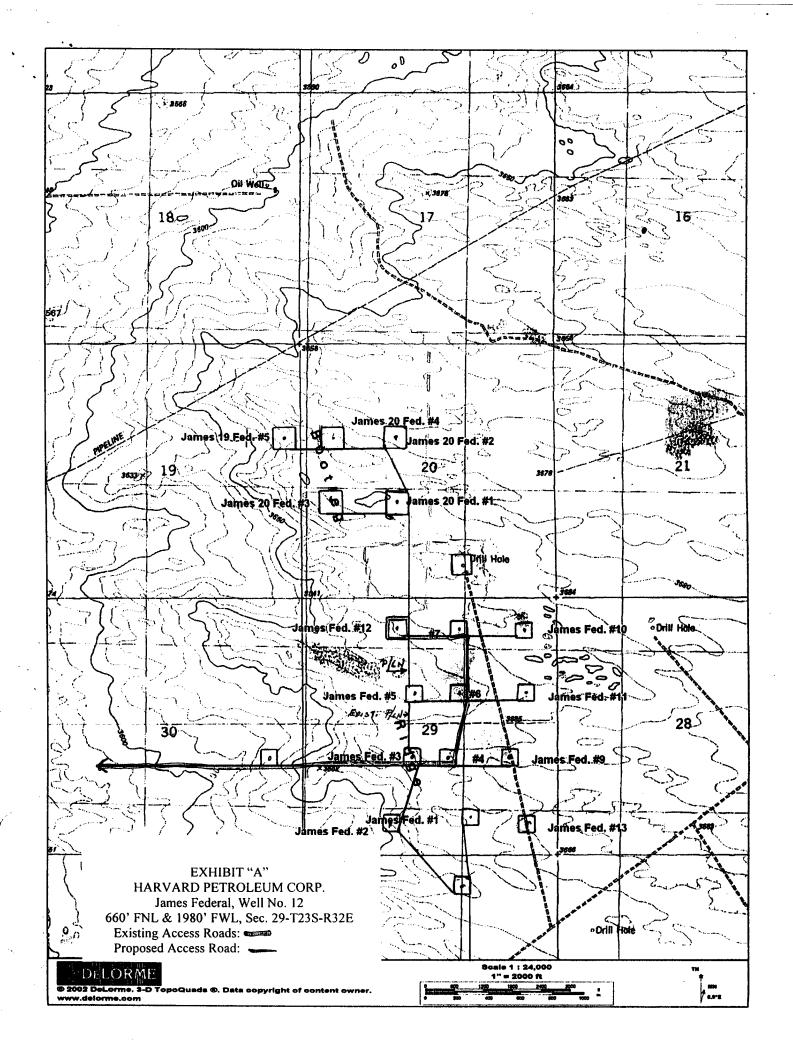
13. CERTIFICATION:

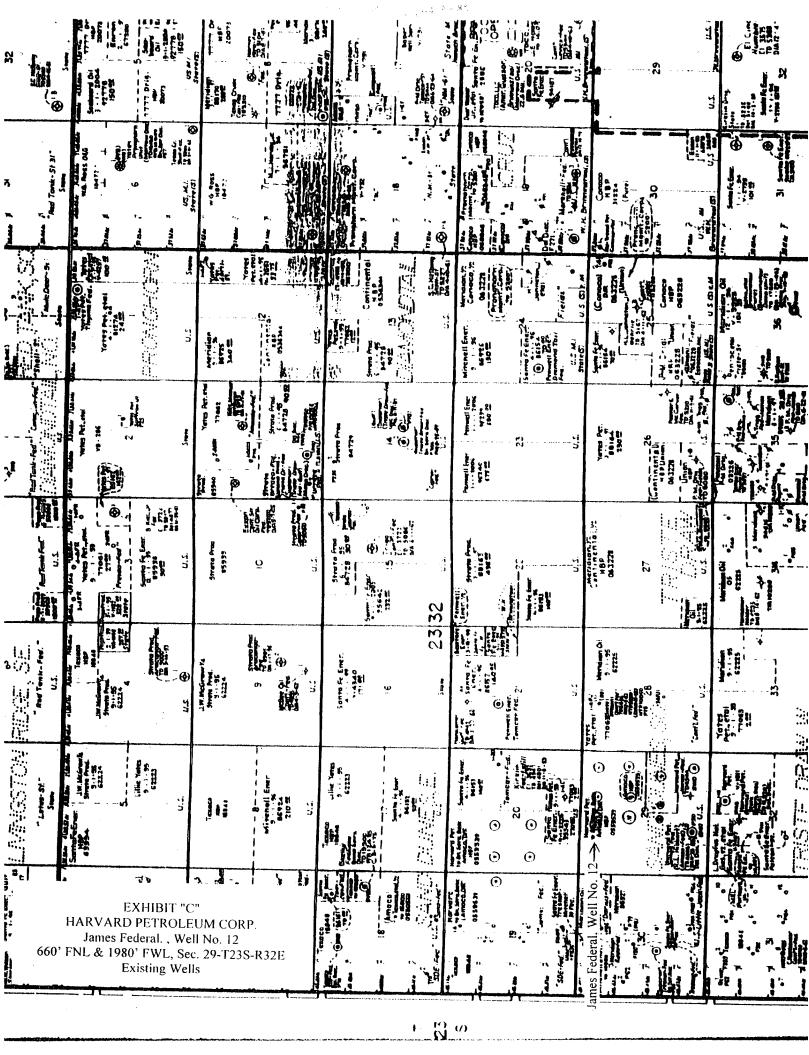
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Harvard Petroleum Corp. 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.

November 28, 2005

George R. Smith

Agent for: Harvard Petroleum Corp.





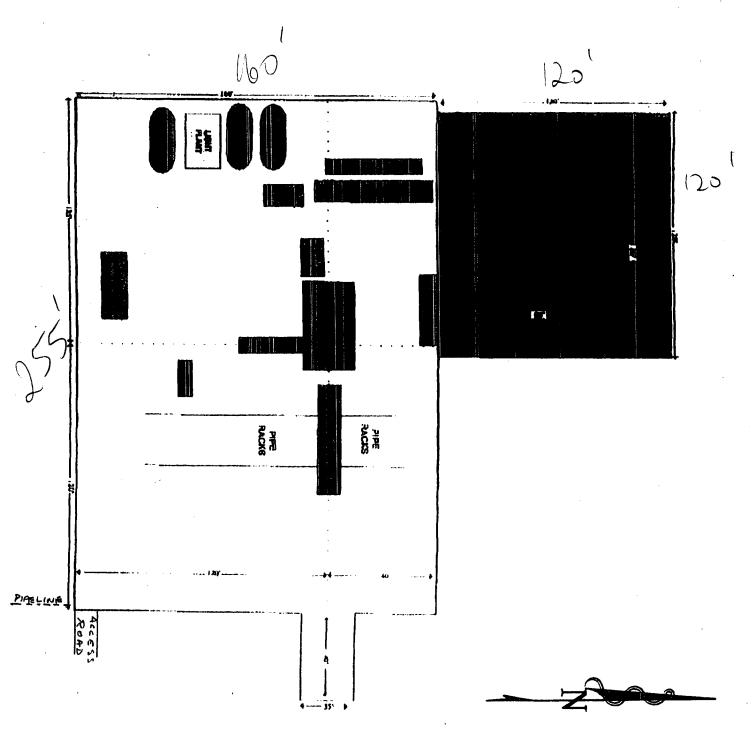


EXHIBIT "D"
HARVARD PETROLEUM CORP.
James Federal, Well No. 12
Pad & Pit Layout

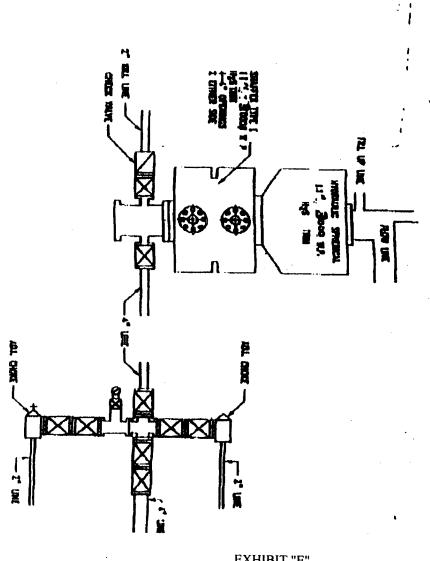


EXHIBIT "E"
HARVARD PETROLEUM CORP.
James Federal, Well No. 12
BOP Specifications

District⁴I 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe

Form C-144 March 12, 2004

office

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes No X

Type of action: Registration of a pit o	r below-grade tank X Closure of a pit or below-gra	de tank
Operator: _Harvard Petroleum Corp	Telephone: _(505) 623-1581 e-m	ail address:
Address: _P.O. Box 316 Roswell, NM 88202	3D-025-3771/B or Otr/Otr NE4NW4	Sec 29 T 23S R 32E
County: _Lea Latitude_N 32'28'09.47" Longitude		
Pit	Below-grade tank	
Type: DrillingX Production Disposal	Volume:bbl Type of fluid:	
Workover ☐ Emergency ☐	Construction material:	_
LinedX Unlined	Double-walled, with leak detection? Yes If no	ot, explain why not.
Liner type: Synthetic Thickness 12_mil Clay Volume 10,000 +/bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points)
water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
water elevation of ground water.)	100 feet or more	(0 points)
Wellhand material and and the 200 feet from a minute demant	Yes	(20 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	No	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points)
	Ranking Score (Total Points)	-0-
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	s relationship to other equipment and tanks. (2) India	cate disposal location:
onsite offsite If offsite, name of facility		
end date. (4) Groundwater encountered: No Tyes If yes, show depth		
a diagram of sample locations and excavations.	it. and attach	sample results. (2) retains son sample results and
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines X, a Date: November 28, 2005	general permit 🔲, or an (attached) alternative O	CD-approved plan .
Printed Name/Title Agent for Harvard Petroleum Corp	Signature	Jeorgel Smick
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability should the contents of	of the pit or tank contaminate ground water or
Approval: DatAPR 0 4 2006 Printed Name/Title PETROLEUM ENGINEER	Signature	

Sent: Tue 4/4/2006 9:12 AM

The sender of this message has requested a read receipt. Click here to send a receipt.

Mull, Donna, EMNRD

From:

Phillips, Dorothy, EMNRD

To:

Mull, Donna, EMNRD

Cc:

Subject:

RE: Financial Assurance Requirement

Attachments:

Donna all have a blanket bond except for Texland Petroleum, Inc. One well for 30-025-29542 is all they have. None of them appear on Jane's lilst.

From: Muli, Donna, EMNRD

Sent: Tuesday, April 04, 2006 8:53 AM

To: Phillips, Dorothy, EMNRD

Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD

Subject: Financial Assurance Requirement

Dorothy, Is the Financial Assurance Requirement for these Operators OK?

Mack Energy Corp (13837) Samson Resources (20165) Texland Petroleum LP (186838) Platinum Exploration Inc (227103) Marathon Oil Co (14021) Mewbourne Oil Co (14744) Harvard Petroleum Corp (10155)

Please let me know. Thanks & have a nice day. Donna