

District I
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
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

SEP 03 2010

HOBBSOCD

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Harvard Petroleum Company, LLC PO Box 936, Roswell, NM 88202-0936		² OGRID Number 010155
		³ API Number 30 - 025 - 39455
⁴ Property Code 37734	⁵ Property Name Wynn	⁶ Well No. 1H
⁹ Proposed Pool 1 Garrett; Drinkard East		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	16S	38E		330	North	330	West	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/Southline	Feet from the	East/West line	County
A	26	16S	38E		610	North	340	East	Lea

Additional Well Information

¹¹ Work Type Code P <i>E (Horizontal)</i>	¹² Well Type Code O	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3701
¹⁶ Multiple No	¹⁷ Proposed Depth TVD 8500 MD 12777	¹⁸ Formation Drinkard	¹⁹ Contractor Norton	²⁰ Spud Date Oct 30, 2010

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	9 5/8"	36#	2147	700	Circ
8 3/4"	7"	26#	8500	1470	Circ
6 1/8"	4 1/2" Liner	11.6#	12777	600	Lnr top 7900'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Current productive zone 8218-8314' in the Drinkard. The above 9 5/8" and 7" casing strings above were set and cemented during the original operations in Sept 09.

Will set 7" CIBP at 8043', Set 7" Whipstock on CIBP, top of whip 8023, btm whip 8033, mill out at 93 deg azimuth, build curve at 25 deg/100' to 89.5 degs at 8255 ft TVD, drill 4400' lateral w fresh water and gel sweeps to BH loc, BH TVD - 8293', clean out, run 4 1/2" 11.6# L&N80 liner and cmt w/ 600 sks. The Drinkard formation will be completed in multiple stages through the liner.

See attached BOP diagram

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

Horizontal

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Jeff Harvard

Title: Manager

E-mail Address: jharvard@hpcnm.com

Date: 9/1/10

Phone: 575-623-1581

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

SEP 08 2010

Expiration Date:

Conditions of Approval Attached ☐

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-39455		Pool Code 27135	Pool Name GARRETT; DRINKARD EAST
Property Code 37734	Property Name WYNN		Well Number 1H
GRID No. 010155	Operator Name HARVARD PETROLEUM COMPANY, LLC		Elevation 3701'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	16-S	38-E		330	NORTH	330	WEST	LEA

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
A	26	16-S	38-E		610	NORTH	340	WEST	LEA
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order 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

<p>GRID AZ. -93°03'42" HORZ. DIST. -4620.6'</p> <p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=692837.2 N X=870936.8 E</p> <p>BOTTOM HOLE LOCATION Y=692590.8 N X=875550.4 E</p> <p>SL 330' 330'</p> <p>B.H. 610' 340'</p> <p>N 693164.7 E.870604.1 LAT -32.899758° N LONG -103.125913° W</p> <p>N 693203.1 E.875884.7 LAT -32.899696° N LONG -103.108711° W</p> <p>LAT. = 32.898847° N LONG. = 103.124842° W</p> <p>LAT -32.885221° N LONG. -103.125970° W N:687875.6 E:870647.3</p> <p>LAT -32.885151° N LONG -103.108752° W N:687911.1 E:875933.7</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <u>Jeff Harvard</u> Date: <u>9/1/10</u></p> <p>Printed Name: <u>JEFF HARVARD</u></p> <p>SURVEYOR CERTIFICATION</p> <p>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 supervision, and that the same is true and correct to the best of my belief.</p> <p>Date Surveyed: <u>8/19/2010</u> LA</p> <p>Signature & Seal of Professional Surveyor: <u>Ronald F. Eidson</u></p> <p>Certificate No. <u>GARY EIDSON 12641</u> <u>RONALD EIDSON 3239</u></p>
---	--

**BOP DIAGRAM
3000# SYSTEM**

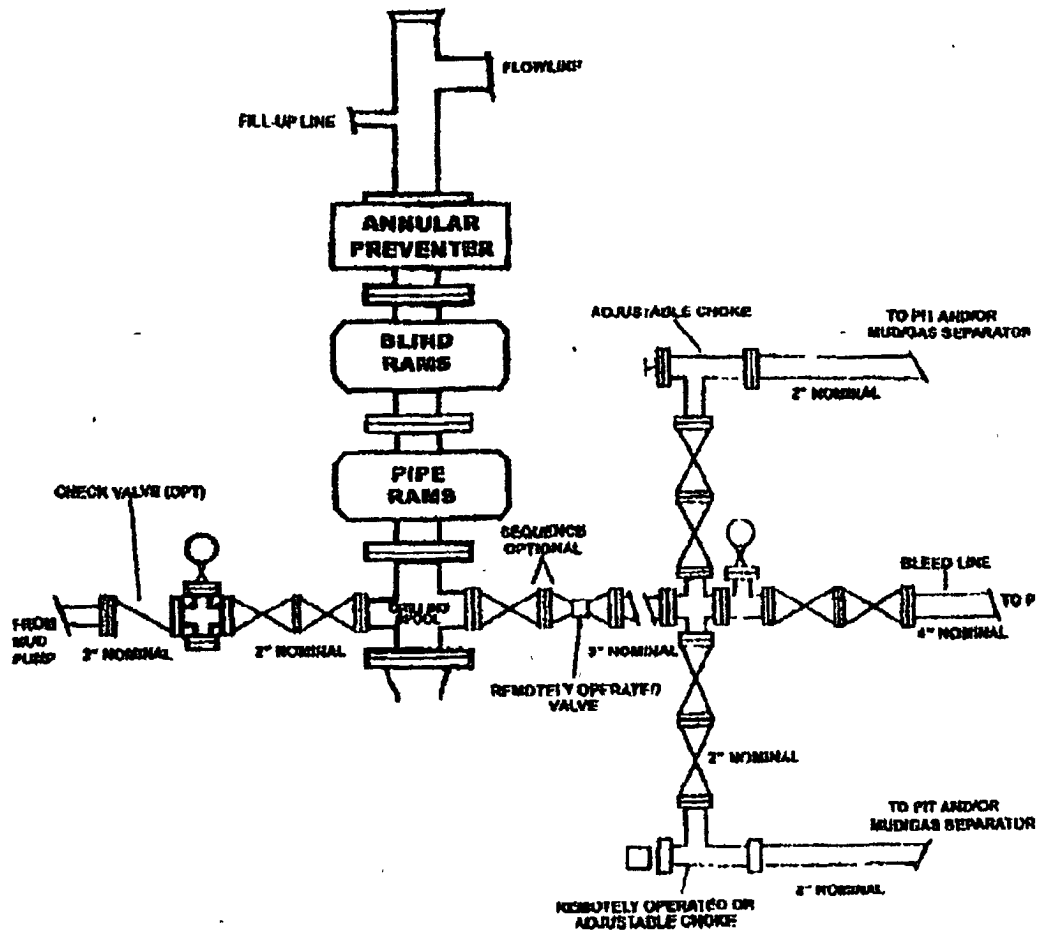


Exhibit "A"

Harvard Petroleum Company LLC

Wynn #1 H

BOP Specifications