

District I
1625 N Trench Dr., Hobbs, NM 88249
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

MAY 17 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

Operator Name and Address Harvard Petroleum Company, LLC, PO Box 936, Roswell, NM 88202		OCRID Number 010155
Property Code 39162	Property Name Garrett	API Number 30 - 025 - 39255
Proposed Pool 1 Garrett, Drinkard, East		Well No 1
Proposed Pool 2 <27130>		

Surface Location

TL or lot no	Section	Township	Range	Foot/In	Feet from the	North-South line	Feet from the	East-West line	County
B	26	16-S	38-E		400	North	2270	East	Lea

Proposed Bottom Hole Location If Different From Surface

TL or lot no	Section	Township	Range	Foot/In	Feet from the	North-South line	Feet from the	East-West line	County
H	26	16-S	38-E		2310	North	330	East	Lea

Additional Well Information

Work Type Code N	Well Type Code O	Cable Rotary R	Lease Type Code P	Ground Level Elevation 3694
Multiple N	Proposed Depth TVD 8500, TD 10,540	Formation Drinkard	Contractor Norton Energy	Spud Date June 15, 2010

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight foot	Setting Depth	Sacks of Cement	Estimated TOC
12 25	9 625	36	2200	950	Surface
8.75	7 00	26	8500	1250	Surface
6 125	4 50	11.5	8000 - 10540	NA	NA

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.

Harvard Petroleum Company, LLC proposes to drill and produce the Drinkard Formation as follows

Drill a 12 1/4" hole to 2200' with fresh water then run 9 5/8" casing to TD. 9 5/8" casing will be cemented with adequate volume to circulate to surface. NU BOP and test then drill an 8 7/8" hole with brine and salt gel to TD (8500') and run open hole logs. After logging, 7" 26# casing will be run to TD and cemented with adequate volumes to circulate to surface.

A whipstock will be set and a window cut at approximately 8000' and a 6 1/8" hole approximately 2500' in length will be drilled.

A 4 1/2" liner equipped with packers will be set through the horizontal section but not cemented. The Drinkard formation will be tested through this liner.

H2S equipment will be installed before drilling the San Andres formation.

See BOP Diagram.

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

Signature.

Printed name: Phelps White

Title: Consultant

E-mail Address: pwiv@zianet.com

Date: May 14, 2010

Phone: 575 626 7660

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: MAY 27 2010

Expiration Date:

CONDITION OF APPROVAL FOR APD'S

"Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string."

Permit Expires 2 Years From Approval Date Unless Drilling Underway

DISTRICT I
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DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

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MAY 17 2010

State of New Mexico
Energy, Minerals and Natural Resources Department

HOBBS

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-39755	Pool Code 27130	Pool Name Garrett Drinkard
Property Code 38162	Property Name GARRETT	Well Number 1
GRID No. 10155	Operator Name HARVARD PETROLEUM CORPORATION	Elevation 3694'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	26	16-S	38-E		400	NORTH	2270	EAST	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
H	26	16-S	38-E		2310	NORTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=692786.7 N X=873618.6 E</p> <p>LAT.=32 898623" N LONG.=103.116108" W</p> <p>BOTTOM HOLE LOCATION Y=690891.1 N X=875576.1 E</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 Date Phelps White 5-14-10 Printed Name</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>Signature & Seal of Professional Surveyor GARY G. EIDSON 12641 5/11/10 10.11 0663</p> <p>Certificate No. GARY EIDSON 12641 RONALD EIDSON 3239</p>
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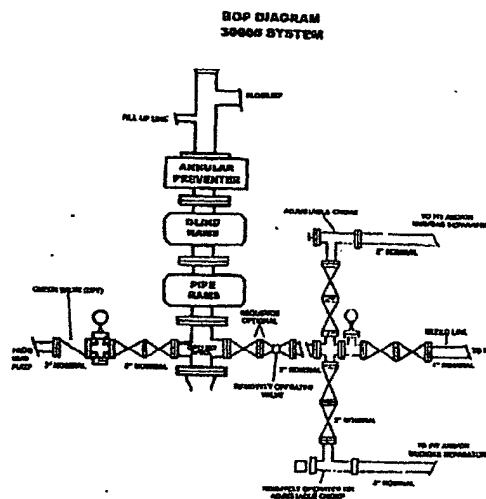


Exhibit "A"
Harvard Petroleum Company LLC

BOP Specifications

Garrett #1