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|-----------|-----------|-------|-------------------------------|
| RECEIVED: | REVIEWER: | TYPE: | APP NO: pLEL2227827771 |
|-----------|-----------|-------|-------------------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Harvard Petroleum Company, LLC **OGRID Number:** 10155
Well Name: Duncan 32 State Com 1 **API:** 30-025-36942
Pool: Vacuum; Abo, North **Pool Code:** 61760

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☒ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☐ Offset operators or lease holdersB. ☒ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete☐ Application
Content
Complete

3) CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Brian Wood

Print or Type Name

Signature

10-3-22

Date

505 466-8120

Phone Number

brian@permitswest.com

e-mail Address



October 3, 2022

Leonard Lowe
NM Oil Conservation Div.
1220 S. St. Francis Dr.
Santa Fe NM 87505

Dear Mr. Lowe:

On behalf of Harvard Petroleum Company, LLC, I am filing an unorthodox location (NSL) application for its Duncan 32 State Com 1 (30-025-36942) well. This existing Morrow gas well will be plugged back and completed in the Abo. (APD, Exhibit A, filed September 21, 2022.)

This vertical well is at 2245' FNL and 660' FEL 32-17s-34e, Lea County (C-102 is Exhibit B). This is 265' too far south. An orthodox Abo well must be within 200' of the center of the quarter-quarter.

80.00 acres (E2NE4 32-17s-34e) will be dedicated to the Abo.

This Abo is in the Vacuum; Abo, North (61760) pool.

Abo is an oil zone.

Unorthodox location approval is requested because the cost of drilling and completing a new well at an orthodox location cannot be justified.

An unorthodox location was not requested at an OCD hearing. Abo unorthodox was previously administratively approved (NSL-5140 in 2004 as a laydown (S2NE4 Sec. 32), but never developed.

Waivers are not attached.

Affected persons are the NM State Office (lessor) and ZPZ (lessee). There are no affected Abo operators (Exhibits C & D). No Abo dedications border or corner Harvard's proposed Abo dedication.

Encroached tract is NESE 32-17s-34e. It is part of NMSLO lease E0-1448-0003 and has the same royalty rate (1/8) as Harvard's NMSLO lease B0-0143-0005.

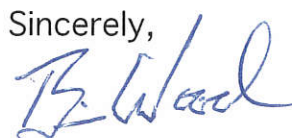
HSU, Defining Well, Infill Well, and NSP are not applicable.

Notice (Exhibit E) has been sent to the following affected parties.

| TYPE INTEREST | AFFECTED PARTY | AFFECTED LOCATION | DATE LETTER SENT | MAIL TRACKING NUMBER |
|---------------|----------------------|-------------------|------------------|--------------------------|
| lessor | NM State Land Office | NESE 32-17s-34e | 10/3/22 | 7022 1670 0001 2804 2686 |
| lessee | ZPZ Delaware | NESE 32-17s-34e | 10/3/22 | 7022 1670 0001 2804 2693 |

Please call (505 466-8120) or e-mail (brian@permitswest.com) me if you have any questions.

Sincerely,



Brian Wood

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

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

| | | |
|---|---|---|
| ¹ Operator Name and Address Harvard Petroleum Company, LLC P. O. Box 936 Roswell NM 88202 (575) 623-1851 | | ² OGRID Number 10155 |
| | | ³ API Number 30-025-36942 |
| ⁴ Property Code 332754 | ⁵ Property Name Duncan 32 State Com | ⁶ Well No. 1 |

⁷ Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| H | 32 | 17 S | 34 E | | 2245 | N | 660 | E | Lea |

⁸ Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| H | 32 | 17 S | 34 E | | 2245 | N | 660 | E | Lea |

⁹ Pool Information

| Pool Name | Pool Code |
|--------------------|-----------|
| Vacuum; Abo, North | 61760 |
| Vacuum; Wolfcamp | 62340 |

| | | | | |
|--|--|--|--|--|
| ¹¹ Work Type A | ¹² Well Type O | ¹³ Cable/Rotary R | ¹⁴ Lease Type S | ¹⁵ Ground Level Elevation 4078' |
| ¹⁶ Multiple Y | ¹⁷ Proposed Depth 13550' | ¹⁸ Formation Mississippian | ¹⁹ Contractor to be determined | ²⁰ Spud Date Oct. 1, 2022 |
| Depth to Ground water 105' in L 07018 | | Distance from nearest fresh water well 1.14 mi north of L 07018 | | Distance to nearest surface water ≈400' SW of nameless draw |

☒ A closed-loop system will be used instead of lined pits.²¹ Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|--------------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surface | 17.5" | 13.375" | 48# H-40 | GL - 400' | 500 | GL |
| Intermediate | 9.625" | 12.25" | 40# J-55 | GL - 4802' | 1800 | GL |
| Production | 8.75" | 5.5# | 17# P-110 | GL - 13549' | 1000 | 1730' |

Casing/Cement Program: Additional Comments

Drill plugs with fresh water spud mud. Will downhole commingle Drinkard (existing perfs), Abo, & Wolfcamp.

²² Proposed Blowout Prevention Program

| Type | Working Pressure (psi) | Test Pressure (psi) | Manufacturer |
|-----------------------|------------------------|---------------------|--------------|
| annular & double rams | 5000 | 5000 | TBD |

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:

Printed name: Brian Wood

Title: Consultant

E-mail Address: brian@permitswest.com

Date: 9-20-22

Phone: 505 466-8120

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

EXHIBIT B

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

X AMENDED REPORT
(add Abo)

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---|---|---|
| ¹ API Number 30-25-36942 | ² Pool Code 61760 | ³ Pool Name VACUUM; ABO, NORTH |
| ⁴ Property Code 332754 | ⁵ Property Name DUNCAN 32 STATE COM | |
| ⁷ OGRID No. 10155 | ⁸ Operator Name HARVARD PETROLEUM COMPANY, LLC | ⁶ Well Number 1 |
| | | ⁹ Elevation 4078' |

¹⁰ Surface Location

| | | | | | | | | | |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------|
| UL or lot no. H | Section 32 | Township 17 S | Range 34 E | Lot Idn | Feet from the 2245 | North/South line NORTH | Feet from the 660 | East/West line EAST | County LEA |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------|

¹¹ 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 |
| ¹² Dedicated Acres 80.00 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ 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.

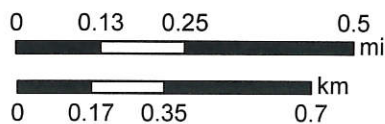
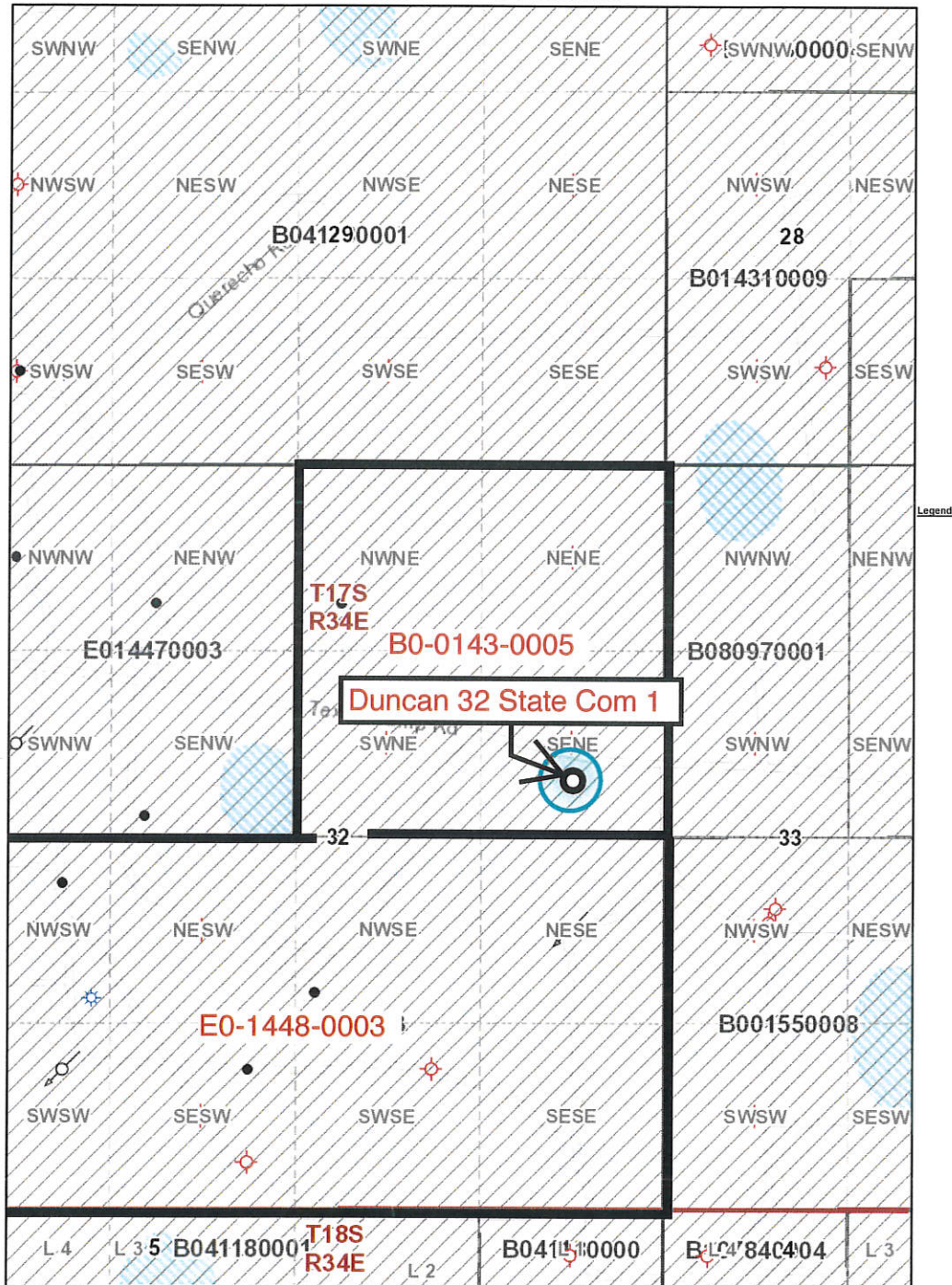
| | | |
|-------------------|---|--|
| ¹⁶ | ¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> 10-2-22 Signature BRIAN WOOD Date Printed Name brian@permitswest.com E-mail Address (505) 466-8120 | |
| | ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 11-3-04 Date of Survey Signature and Seal of Professional Surveyor: Original survey by Gary Eidson #12641 on file with NMOCD. Certificate Number | |
| | | |
| | | |



New Mexico State Land Office

EXHIBIT C

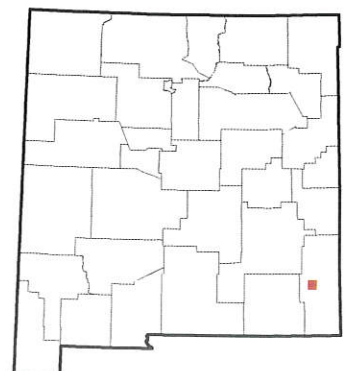
Letter - Portrait1



Disclaimer:

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.

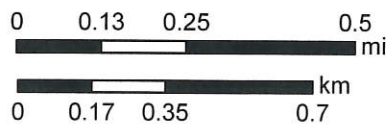
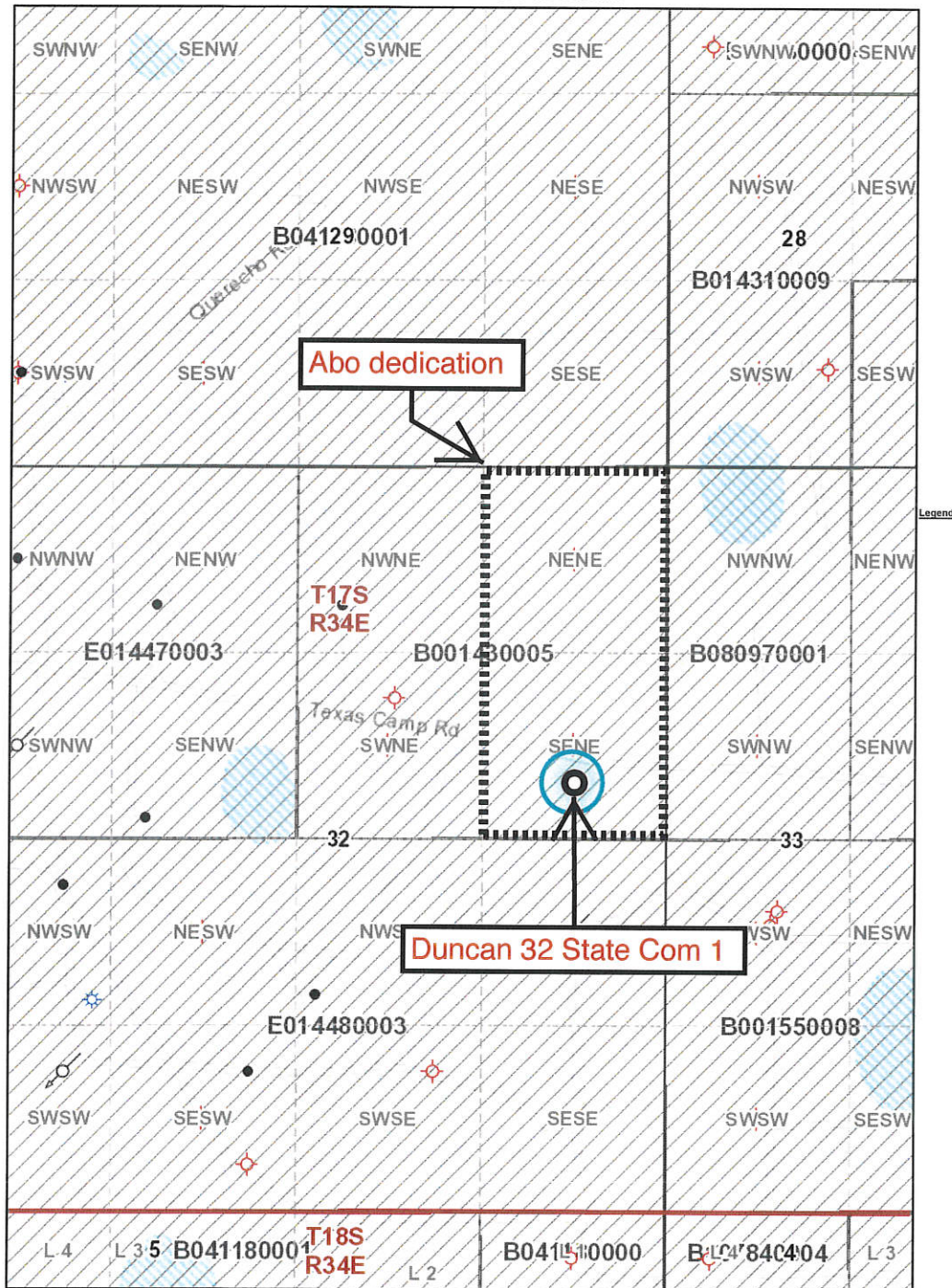




New Mexico State Land Office

EXHIBIT D

Letter - Portrait1



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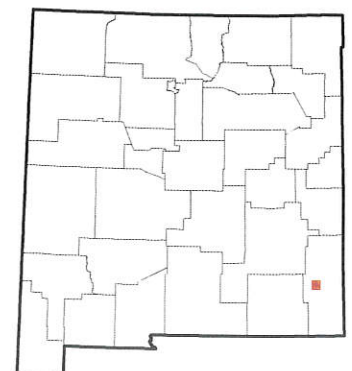


EXHIBIT E

PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USERS
37000 Loop, Santa Fe, New Mexico 87504 (505) 466-1120

October 3, 2022

ZPZ Delaware LLC
2000 Post Oak Blvd., Suite 100
Houston TX 77056

As required by New Mexico Oil Conservation Division (NMOCD) Rules, I am notifying you of the following nonstandard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

Harvard Petroleum Company, LLC is applying for NSL approval for its Duncan 32 State Com 1 as a Vacuum; Abo, North oil well. NMOCD requires such an oil well to be within 200' of the center of the quarter-quarter. The center of this quarter-quarter is 1980' FNL & 660' FEL. The well is 265' further south than is standard (see attached application) for the Vacuum; Abo, North pool. Thus, it is a nonstandard location.

Well Name: Duncan 32 State Com 1 ID: 13,550' (Abo perforations 8808' - 8966')
Proposed NSL Zone: Vacuum; Abo, North
NSL Acreage Dedication: 80.00 acres (E2NE4 32-17s-34e, Lea County, NM)
on NMSLO lease 80-0143-0005
Well Location: 2245' FNL & 660' FEL 32-17s-34e (4 air miles WSW of Buckeye, NM)
Applicant Name: Harvard Petroleum Company, LLC (575) 623-1851
Applicant's Address: P. O. Box 936, Roswell NM 88202

Submittal Information: Application for a nonstandard location will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, then it must be filed in writing within 20 days from the date the NMOCD receives the application. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440. E-mail address is: ocd.engineer@state.nm.us

Please call me if you have any questions.

Sincerely,



Brian Wood

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Houston, TX 77056

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OCT-3-2022

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Total Postage and Fees \$5.69

10/03/2022

Sent To

ZPZ

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Houston

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7022 1670 0001 2804 2693

PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USERS
37000 Loop, Santa Fe, New Mexico 87504 (505) 466-1120

October 3, 2022

NMSLO
PO Box 1148
Santa Fe NM 87504

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Please call me if you have any questions.

Sincerely,



Brian Wood

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Santa Fe, NM 87504

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\$3.25
Extra Services & Fees (check box, \$0.00 is appropriate)
☐ Return Receipt (hardcopy) \$0.00
☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

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OCT-3-2022

Postage \$1.44

Total Postage and Fees \$5.69

10/03/2022

Sent To

NMSLO

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

SF

PS Form 3800, April 2015 PSN 7530-02-000-9047

7022 1670 0001 2804 2686

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 148295

COMMENTS

| | |
|--|--|
| Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202 | OGRID: 10155 |
| | Action Number: 148295 |
| | Action Type: [UF-NSL] Non-Standard Location (NSL) |

COMMENTS

| Created By | Comment | Comment Date |
|------------|--|--------------|
| llowe | POOL/FORMAION: Vacuum; Abo, North CODE NO. 61760 | 10/5/2022 |

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 148295

CONDITIONS

| | |
|--|--|
| Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202 | OGRID: 10155 |
| | Action Number: 148295 |
| | Action Type: [UF-NSL] Non-Standard Location (NSL) |

CONDITIONS

| | | |
|------------|--|----------------|
| Created By | Condition | Condition Date |
| llowe | NSL - 8453 is approved. The approved Order can be retrieved at the following OCD website link. https://ocdimage.emnrd.nm.gov/imaging/AEOrderCriteria.aspx | 10/5/2022 |