

ABOVE THIS LINE FOR DIVISION USE ONLY

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



Chesapeake
14779

PLU Big Sinks 157530 F1H

ADMINISTRATIVE APPLICATION CHECKLIST 30-015-39693

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

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

C-22-755-30E

2012 MAR -5 P 4:16
RECEIVED

*Amend
NSL 6495*

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

*Wildcat Big Sink
B.S.*

96654

BLM/Eddy

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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.

Adam G. Rankin
Print or Type Name

[Signature]
Signature

Attorney
Title

3/5/12
Date

agrarkin@hollandhart.com
e-mail Address

HOLLAND & HART LLP



Adam G. Rankin
Associate
Phone 505-954-7294
Fax 505-983-6043
AGRankin@hollandhart.com

March 5, 2012

VIA HAND DELIVERY

Jami Bailey
Oil Conservation Division
New Mexico Department of
Energy, Minerals and Natural Resources
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

2012 MAR -5 P 4:16
RECEIVED OGD

Re: Application of Chesapeake Operating, Inc. for Amendment to Administrative Order NSL-6495 Approving An Unorthodox Well Location for the PLU Big Sinks 15 25 30 USA Well No. 1H in Section 15, Township 25 South, Range 30 East, NMPM, Eddy County, New Mexico.

Dear Ms. Bailey:

By Administrative Order NSL-6495, dated November 7, 2011, the Division approved an unorthodox well location for Chesapeake Operating, Inc.'s ("Chesapeake") PLU Phantom Banks 15 25 30 USA Well No. 1H located in Section 15, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico. Under the NSL Order, the well is to be drilled in the Bone Spring formation at a surface location and a penetration point 10 feet from the North line and 1980 feet from the West line of Section 22, Township 25 South, Range 30 East, with a terminus location 350 feet from the North line and 1980 feet from the East line of Section 15. Notice was provided to the affected parties and no objection was received by the Division prior to issuance of Order NSL-6495.

As reflected on the attached amended C-102 report, Chesapeake now seeks to drill the well to a terminus location 100 feet from the North line of Section 15 in order to maximize the length of the completion interval within the target zone. Included with this cover letter is a letter from Bass Operating and Production Company, the only affected interest, waiving any objections to Chesapeake's request for such an amendment.

Accordingly, Chesapeake respectfully requests that Administrative Order NSL-6495 be amended to reflect approval of a terminus location 100 feet instead of 350 feet from the North line of Section 15.

Holland & Hart LLP

Phone [505] 988-4421 Fax [505] 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 **Mailing Address** P.O. Box 2208 Santa Fe, NM 87504-2208

Denver Aspen Boulder Colorado Springs Denver Tech Center Billings Boise Cheyenne Jackson Hole Las Vegas Salt Lake City Santa Fe Washington, D.C.



Your attention to this application is appreciated.

Sincerely,

Adam G. Rankin

ATTORNEY FOR CHESAPEAKE OPERATING, INC.

AGR

cc: David K. Brooks
Monty Montgomery, BOPCO
Teresa Long, Chesapeake Operating, Inc. w/o encls



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



November 7, 2011

Ocean Munds-Dry, Esq.
P.O. Box 2208
Santa Fe, NM 87504

Administrative Order NSL-6495

Re: **Chesapeake Operating, Inc.**
PLU Big Sinks 15 25 30 USA Well No. 1H (API No. 30-015-NA)
SHL: 10 FNL 1980 FWL of Section 22, T25S, R30E
PP: 10 FSL 1980 FWL of Section 15, T25S, R30E
BHL: 350 FNL 1980 FWL of Section 15, T25S, R30E
Project Area: Units N, K, F, C of Section 15, T25S, R30E
Eddy County, New Mexico

Dear Ms. Munds-Dry:

Reference is made to the following:

(a) your application (**administrative application reference No. pTGW11-27348211**) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico, on behalf of Chesapeake Operating, Inc. (Chesapeake) [OGRID 147179], on September 28, 2011, and

(b) the Division's records pertinent to this request.

Chesapeake has requested to drill the above-referenced well as a horizontal well in the Lower Avalon ("target") member of the Bone Spring formation, at a location that will be unorthodox under Division Rule 16.14.B(2) [19.15.16.14.B(2) NMAC].

The E/2 W/2 of Section 25 will be dedicated to the proposed well to form a project area comprising four standard 40-acre spacing units in the Wildcat; Bone Spring Pool. This pool is governed by statewide Rule 15.9 [19.15.15.9 NMAC], which provides for 40-acre units, with wells located at least 330 feet from a unit outer boundary. This location is unorthodox because it penetrates the pool at less than 330 feet from the southern portion of the project area.

Oil Conservation Division * 1220 South St. Francis Drive
* Santa Fe, New Mexico 87505

* Phone: (505) 476-3440 * Fax: (505) 476-3462 * <http://www.emnrd.state.nm.us>



The point of penetration of the top of the Bone Spring formation which is the top of the Wildcat; Bone Spring Pool is noted above. It is our understanding that the well will be orthodox at the point of penetration of the target member of the Bone Spring formation and will be cased and not perforated until it reaches the producing area.

Your application has been duly filed under the provisions of Division Rules 15.13 [19.15.15.13 NMAC] and 4.12.A(2) [19.15.4.12.A(2) NMAC].

It is our understanding that you are seeking this location for engineering reasons, in order to penetrate the maximum amount of the target zone within the producing area.

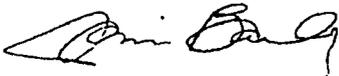
It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 4.12.A(2) [19.15.4.12.A(2) NMAC], in all adjoining units towards which the proposed location encroaches.

Pursuant to the authority conferred by Division Rule 15.13.B [19.15.15.13.B NMAC], the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to, Division Rule 5.9 [19.15.5.9 NMAC].

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,



JAMI BAILEY
Director

JB/wvj

cc: Oil Conservation Division – Artesia
Bureau of Land Management – Carlsbad

HOLLAND & HART ^{LLP}



Ocean Munds-Dry
omundsdry@hollandhart.com

September 28, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO AFFECTED PARTIES

Re: Application of Chesapeake Operating, Inc. for administrative approval of an unorthodox well location for its PLU Big Sinks 15 25 30 USA Well No. 1H to be drilled from a surface location and penetration point 10 feet from the North line and 1980 feet from the West line of Section 22 and a bottomhole location 350 feet from the North line and 1980 feet from the West line of Section 15, Township 25 South, Range 30 East, NMPM, Eddy County, New Mexico.

Ladies and Gentlemen:

Enclosed is a copy of the above-referenced application which was filed with the New Mexico Oil Conservation Division on this date by Chesapeake Operating Co. for administrative approval of an unorthodox well location for its PLU Big Sinks 15 25 30 USA Well No. 1H. This wildcat well is located in Section 15, Township 25 South, Range 30 East, N.M.P.M., to be drilled to the Bone Spring formation from a surface location and penetration point 10 feet from the North line and 1980 feet from the West line of Section 22 to a bottomhole location 350 feet from the North line and 1980 feet from the West line of Section 15, Eddy County, New Mexico.

As an owner of an interest that may be affected by the proposed well, you may object to this application. Objections must be filed in writing within twenty days from this date at the Division's Santa Fe office that is located at 1220 South Saint Francis Drive, Santa Fe, New Mexico. 87505. If no objection is received within this twenty-day period, this application for an unorthodox well location may be approved.

Sincerely,

Ocean Munds-Dry
Attorney for Chesapeake Operating Co.

Enclosures

Holland & Hart LLP

Phone (505) 988-4421 Fax (505) 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. ☺

DATE IN 9-28-11	SUSPENSE	ENGINEER DB	LOGGED IN 9:30 AM	TYPE NSL	APP NO. 1127348211
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PTG-W

6495

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



Chesapeake
 PLV Big Linto 15 25 30
 USA #1H

ADMINISTRATIVE APPLICATION CHECKLIST

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- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

RECEIVED OGD
 SEP 28 P 3:02

- [1] TYPE OF APPLICATION - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] 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.

Ocean Munds-Dry Ocean Munds-Dry attorney 9-26-11
 Print or Type Name Signature Title Date
 omundsdry@hollandhart.com
 e-mail Address

HOLLAND & HART



Ocean Munds-Dry

omundsdry@hollandhart.com

RECEIVED OGD

2011 SEP 28 P 3: 05

September 28, 2011

HAND-DELIVERED

Jami Bailey, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive,
Santa Fe, New Mexico 87505

Re: Application of Chesapeake Operating, Inc. for administrative approval of an unorthodox well location for its PLU Big Sinks 15 25 30 USA Well No. 1H to be drilled from a surface location and penetration point 10 feet from the North line and 1980 feet from the West line of Section 22 and a bottomhole location 350 feet from the North line and 1980 feet from the West line of Section 15, Township 25 South, Range 30 East, NMPM, Eddy County, New Mexico.

Dear Ms. Bailey:

Chesapeake Operating, Inc. ("Chesapeake") hereby seeks administrative approval pursuant to the provisions of Division Rules 19.15.15.13 and 19.15.16.14 for an unorthodox well location for its PLU Big Sinks 15 25 30 USA Well No. 1H. This wildcat well is located in Section 15, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico and is to be drilled in the Bone Spring formation at a surface location and a penetration point 10 feet from the North line and 1980 feet from the West line of Section 22 and a bottomhole location 350 feet from the North and 1980 feet from the West line of Section 15, Eddy County, New Mexico. A 163.2-acre project area has been dedicated to this horizontal well comprised of the E/2 W/2 of Section 15, and the NE/4 NW/4 of Section 22.

This location is unorthodox because the Bone Spring formation under this acreage is governed by the Division's statewide rules which provide for wells on 40-acre spacing units to be located no closer than 330 feet to the outer boundary of the spacing unit. Division Rule 19.15.16.14 defines the "Penetration Point" as "the point where the wellbore penetrates the top of the pool from which it is intended to produce." The wellbore penetrates the Bone Spring formation at a point 10 feet from the North line of Section 22; it is, therefore, closer than allowed by Division rules.

Holland & Hart

Phone (505) 988-4421 Fax (505) 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. ☉

HOLLAND & HART

Although the wellbore penetrates the top of the Bone Spring at an unorthodox location, the well will be at a standard location at the producing interval. Chesapeake is targeting the Lower Avalon at approximately 8,319 feet (TVD). Therefore, once Chesapeake reaches the targeted formation, it will be at a standard location. The wellbore will be cased and not perforated until it reaches the producing area.

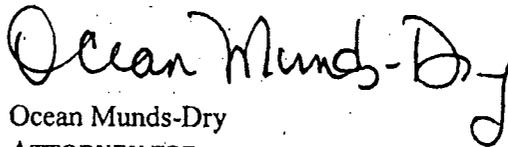
Exhibit A is a plat showing the location of the well. This location is encroaching to the south of Section 15. This location is within the Poker Lake Unit which is operated by BOPCo. A copy of this application with all attachments was mailed to BOPCo. and they were advised that if they have an objection to this application it must be filed in writing with the Division's Santa Fe office within twenty days from the date notice was sent. BOPCo. was also advised that if no objections were received by the Division within twenty days, the Division Director could approve the application.

Exhibit B is the C-102 for this well.

Exhibit C is the notice list.

Your attention to this application is appreciated.

Sincerely,



Ocean Munds-Dry
ATTORNEY FOR
CHESAPEAKE OPERATING, INC.

Enclosures

cc: OCD District Office - Artesia

DISTRICT I
1639 N. French Dr., Hobbs, NM 88240

DISTRICT II
1501 V. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Drazos Rd., Aledo, NM 87410

DISTRICT IV
1820 E. St. Francis Dr., Santa Fe, NM 87503

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 18, 2010

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

APJ Number	Pool Code 96403	Pool Name WILDCAT; BONE SPRING
Property Code	Property Name PLU BIG SINKS 15 25 30 USA	Well Number 1H
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3339'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	25 S	30 E		10	NORTH	1980	WEST	EDDY

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
C	15	25 S	30 E		350	NORTH	1980	WEST	EDDY

Dedicated Acres 163.02	Joint or Infill	Consolidation Code	Order No.
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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

PROPOSED BOTTOM HOLE LOCATION
Lat - N 32.1367778'
Long - W 103.8711944'
NMSPC - N 413802.792
E 684382.867
(NAD-83)
Lat - N 32.13665503'
Long - W 103.87071224'
NMSPC - N 413744.558
E 684397.858
(NAD-27)

Projected Penetration Point
Top Bone Spring formation:
10' FSL/1980' FWL of Sec. 15

SURFACE LOCATION
Lat - N 32.12308940'
Long - W 103.8711942'
NMSPC - N 408815.491
E 884404.128
(NAD-83)
Lat - N 32.12284525'
Long - W 103.87071260'
NMSPC - N 408757.366
E 643218.881
(NAD-27)

OPERATOR CERTIFICATION
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 leasehold 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.

Bryan Arrant 09/22/2011
Signature Date
Bryan Arrant
Printed Name bryan.arrant@chk.com
Email Address

SURVEYOR CERTIFICATION
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.

Gary L. Jones
Date Surveyed
Signature & Seal of Professional Surveyor
CERTIFICATE NO. 7977
2011

Certificate No. Gary L. Jones 7977
BASIN SURVEYS 24821

EXHIBIT
B

Exhibit C
Chesapeake's NSL Application
PLU Big Sinks 15 25 30 USA Well No. 1H

BOPCo., LP
201 W. Main Street Suite 3100
Fort Worth, Texas 76102



HOLLAND & HART^{LLP}



Adam G. Rankin
Phone 505-988-4421
Fax 505-983-6043
agrarkin@hollandhart.com

February 29, 2012

VIA E-MAIL AND
UPS OVERNIGHT DELIVERY

BEPCO *
Attn.: Monty Montgomery
201 Main Street, Suite 3100
Fort Worth, Texas 76102

Re: Application of Chesapeake Operating, Inc. to Amend NSL-6495

Dear Mr. Montgomery:

Chesapeake Operating, Inc. intends to submit the above-referenced application to the New Mexico Oil Conservation Division to amend NSL-6495, see attached, to change the approved bottom-hole location. NSL-6495 provides for a bottom-hole location 350 feet from the North line of Section 15, Township 25 South, Range 30 East, N.M.P.M., Eddy County, New Mexico. Chesapeake Operating, Inc. is seeking to change the bottom-hole location to an unorthodox location 100 feet from the North line of said Section 15.

Division Rules provide that an application may be approved sooner if the applicant obtains waivers from affected parties. We therefore request your waiver of objection to this administrative application. We respectfully request you that you sign this letter and return it by e-mail delivery to me as soon as possible at agrarkin@hollandhart.com.

Thank you for your consideration of this matter. Should you wish to discuss please feel free to call Teresa Long at (405) 935-9175.

Sincerely,

Adam G. Rankin

BEPCO*agrees to waive objection to Chesapeake Operating, Inc.'s application for an unorthodox well location for its **PLU Big Sinks 15 25 30 USA 1H** well.

By: W. Frank McCreight Date: 3-5-2012
Name & Title

W. Frank McCreight, Sr. Vice President
MW

*now known as BOPCO, L.P.
Holland & Hart^{LLP}

Phone [505] 988-4421 Fax [505] 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Denver Aspen Boulder Colorado Springs Denver Tech Center Billings Boise Cheyenne Jackson Hole Las Vegas Salt Lake City Santa Fe Washington, D.C. ☺

DISTRICT I
 1625 N. French Dr., Hobbs, NM 88240
 Phone (575) 593-6161 Fax: (575) 593-0720

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) 534-6178 Fax: (505) 334-8170

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 and Natural Resources Department

Form C-102
 Revised August 1, 2011

Submit one copy to appropriate
 District Office

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

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Property Code 38939	Property Name PLU BIG SINKS 15 25 30 USA	Well Number 1H
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3339'

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Bottom Hole Location If Different From Surface

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Dedicated Acres 163.02	Joint or Infill	Consolidation Code	Order No.
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PROPOSED BOTTOM HOLE LOCATION
 Lat - N 32.13746604'
 Long - W 103.87119257'
 NMSPCE- H 414052.713
 E 684382.151
 (NAD-83)
 Lat - N 32.13734203'
 Long - W 103.87071040'
 NMSPCE- N 413994.474
 E 643197.150
 (NAD-27)

Projected Penetration Point
 330' FSL & 1980' FWL

SURFACE LOCATION
 Lat - N 32.12306940'
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 NMSPCE- N 408815.491
 E 684404.128
 (NAD-83)
 Lat - N 32.12294525'
 Long - W 103.87071260'
 NMSPCE- N 408757.366
 E 643218.961
 (NAD-27)

OPERATOR CERTIFICATION
 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.

Bryan Arrant 2/22/2012
 Signature Date
 Bryan Arrant

Printed Name
 bryan.arrant@chk.com

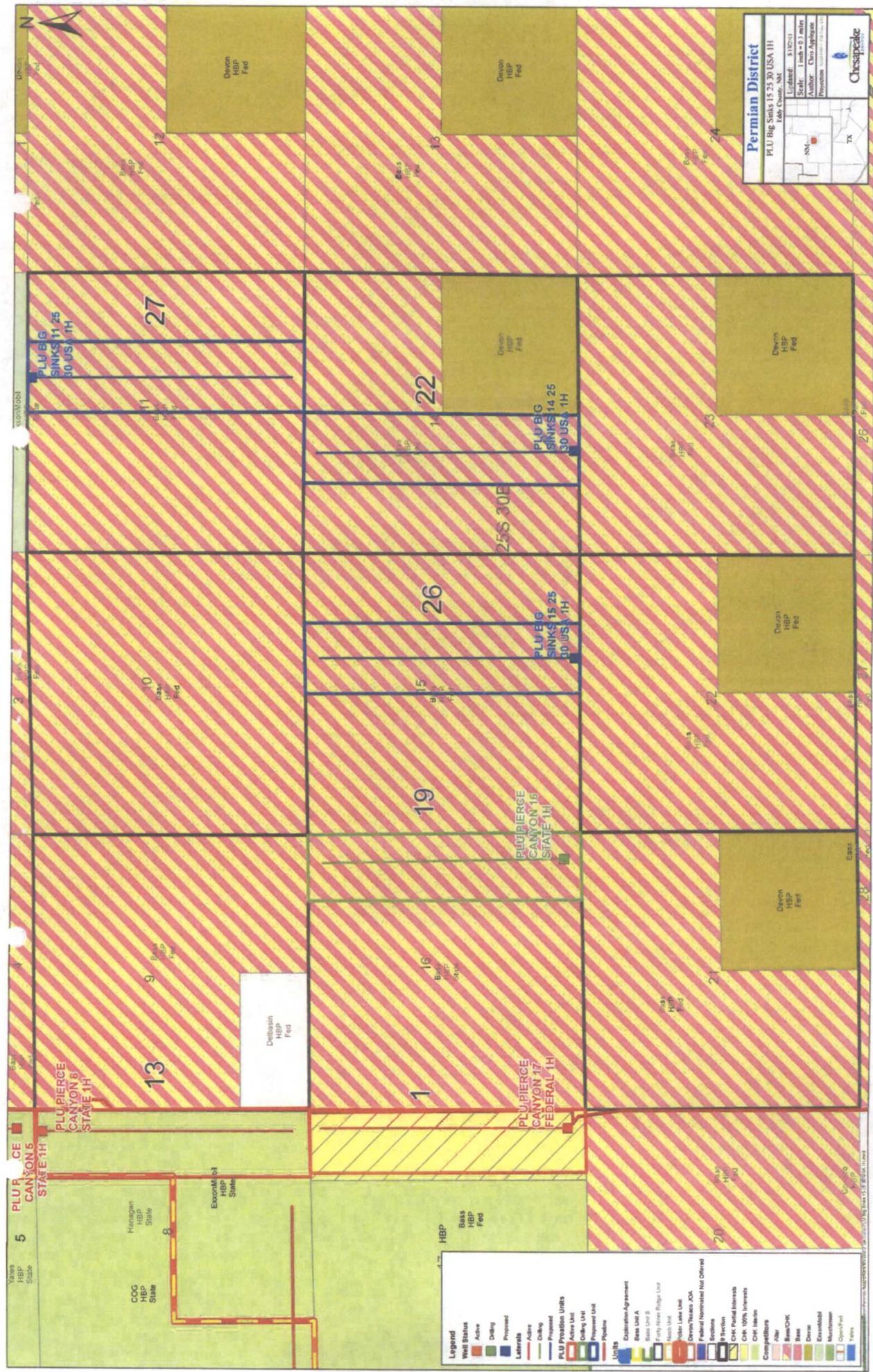
Email Address

SURVEYOR CERTIFICATION
 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.

Gary L. Jones
 Date Surveyed
 Signature & Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 24821



Permian District
 PLU Big Sinks 15 25 30 USA 1H
 15th Floor, 1500 Ross, TX
 License: 512021
 Scale: 1 inch = 0.1 miles
 Author: Chris Applegate
 Projection: NAD 83 UTM Zone 16N

Chesapeake

Legend

- Well Status
 - Active
 - Drilling
 - Proposed
- PLU Provision Units
 - Various Lease Unit
 - Other Lease Unit
 - Proposed Unit
 - Producers
- Units
 - Exploration Agreement
 - Basis Unit A
 - Basis Unit B
 - Early Non-Drilling Unit
 - Lease Unit
 - Other Lease Unit
 - Devon/Tractor, ADA
 - Federal Homestead Not Offered
 - 8 Section
 - CHK Partial Interests
 - CHK 100% Interests
 - CHK Lease
 - Competitors
 - Other
 - Base/CHK
 - Base
 - Drone
 - Enormous
 - Murchison
 - OpenField
 - Values

Values
 HBP
 State

Values
 HBP
 State