## KELLAHIN & KELLAHIN Attorney at Law

W. Thomas Kellahin Recognized Specialist in the Area of Natural Resources-oil and gas law-New Mexico Board of Legal Specialization P.O. Box 2265 Santa Fe, New Mexico 87504 117 North Guadalupe Santa Fe, New Mexico 87501

Telephone 505-982-4285 Facsimile 505-982-2047 kellahin@earthlink.net

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Case 13346

September 8, 2004

HAND DELIVERED

Mr. Mark E. Fesmire, Director Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

Re: Hillburn "13" Well No. 4

Unit C, NW/4 of Section 13, T16S, R35E Application of Chesapeake Operating Company for an unorthodox oil well location and For simultaneous dedication

Lea County, New Mexico

Dear Mr. Fesmire:

cc:

On behalf of Chesapeake Operating Company, please find enclosed our referenced application which we request be set for hearing on the Examiner's docket now scheduled for October 7, 2004. Also enclosed is our proposed advertisement of this case for the NMOCD docket. This request was originally filed administratively but because of an objection by Yates Petroleum Corporation is being refiled for an Examiner's hearing.

Thomas Kellahin

Chesapeake Operating, Inc.
Attn: Lynda Townsend
William F. Carr, Esq.
Attorney for Yates Petroleum Corporation

CASE Application of Chesapeake Operating Company for an unorthodox oil well location and simultaneous dedication, Lea County, New Mexico. Applicant seeks an order authorizing the drilling and production of its Hillburn "13" Well No. 4 at an unorthodox oil well location 335 feet from the North line and 1738 feet from the West line of Section 13, Township 16 South Rage 35 East, NMPM to be dedicate to a standard 160-acre oil spacing unit consisting of the NW/4 of this section for any production for any formation/pools developed on 160-acre oil spacing within that Strawn formation including the North Shoe Bar-Strawn Pool. Applicant further seeks approve to simultaneous dedication of this well and the Hillburn Well No. 1 (API 30-035-24473) and the Hillburn Well No. 3 (API 30-025-35596) to this spacing unit. This well is located approximately 4.5 miles southwest from Lovington, New Mexico.

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF CHESAPEAKE OPERATING COMPANY FOR AN UNORTHODOX OIL WELL LOCATION AND SIMULTANEOUS DEDICATION, LEA COUNTY, NEW MEXICO.

CASE NO. 13346

#### **APPLICATION**

CHESAPEAKE OPERATING COMPANY ("Chesapeake") by its attorneys, Kellahin & Kellahin, and seeks an order authorizing the drilling and production of its Hillburn "13" Well No. 4 at an unorthodox oil well location 335 feet from the North line and 1738 feet from the West line of Section 13, Township 16 South Rage 35 East, NMPM to be dedicate to a standard 160-acre oil spacing unit consisting of the NW/4 of this section for any production for any formation/pools developed on 160-acre oil spacing within that vertical extent including the North Shoe Bar-Strawn Pool. Applicant further seeks approve to simultaneous dedication of this well and the Hillburn Well No. 1 (API 30-035-24473) and the Hillburn Well No. 3 (API 30-025-35596) to this spacing unit.

In support of its application Chesapeake states:

- 1. Chesapeake proposes to drill its Hillburn "13" Well No. 4 at an unorthodox oil well location 335 feet FNL and 1738 feet FWL (Unit C) of Section 13, T16S, R35E, Lea County, New Mexico and dedicated to a 160-acre oil spacing unit consisting of the NW/4 of this section.
- 2. This spacing unit is subject, among other things, to the Special Rjules and Regulations for the North Shoe Bar-Strawn Pool (Order R-4658-B) providing for standard 160-acre oil spacing unit and locations within 150 feet of the center of a governmental quarter-quarter section.

- 3. Chesapeake, based upon geologic data, believes that its proposed unorthodox well location will provide a better opportunity to access potential production in the Strawn formation within this spacing unit than at the closest standard well location and that cannot be produced by any other Strawn well within this spacing unit
- 4. In accordance with the Division's notice requirements, a copy of this application has been sent to those parties affected by the unorthodox well location as listed on Exhibit "A" notifying each of this case and of the applicant's request for a hearing of this matter before the Division on the next available Examiner's docket now scheduled for October 7, 2004.

WHEREFORE, Chesapeake, as applicant, requests that this application be set for hearing on October 7, 2004 before the Division's duly appointed examiner, and that after notice and hearing as required by law, the Division enter its order approving this well location and the requested simultaneous dedication.

RESPECTFULLY SUBMITTED:

W. THOMAS KELLAHIN KELLAHIN & KELLAHIN

P. O. Box 2265

Santa Fe, New Mexico 87504

Telephone:

(505) 982-4285

Fax:

(505) 982-2047

#### EXHIBIT "A"

Offsetting Notice:

Section 12: South Half

Operator:

Yates Petroleum Corporation 105 South Fourth Street

105 South Fourth Street Artesia, New Mexico 88210

		<u> </u>	
DATE IN 9/1/64 SUSPENSE 1/64 ENGINEER 1/5	LOGGED N	THE USL	PSEMO- 47417/014
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ABOVE THIS LINE FOR DIVISION USE ONLY

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPLICAT	TION CHEC	KLIST
	THIS CHECKLIST IS I	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FO WHICH REQUIRE PROCESSING AT THE DIVISI		
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	[C]	Injection - Disposal - Pressure Increase - Enha		PPR
	[D]	Other: Specify	. 1	
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which A  Working, Royalty or Overriding Royalty	Apply, or Does N Interest Content	
	[B]	Offset Operators, Leaseholders or Surfac	e Owner	SEP 1 2004
,	[C]	Application is One Which Requires Publ	ished Legal Notice	Division Division
	[D]	Notification and/or Concurrent Approval U.S. Bureau of Land Management - Commissioner of Public La	by BLM or SLO	Oil Conservation 1220 S. St. Francis Division 1220 S. St. Francis Division 1220 Santa Fe, NM 87505
	[E]	For all of the above, Proof of Notification	or Publication is A	
	[F]	Waivers are Attached		
3]		TURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ON REQUIRED T	O PROCESS THE TYPE
4] pprov pplic	val is accurate an ation until the re-	HON: I hereby certify that the information sub- id complete to the best of my knowledge. I also have dinformation and notifications are submitted atement that the completed by an individual with ma	o understand that no ed to the Division.	o action will be taken on this risory capacity.
Print o	or Type Name	Signature KI	LLAHIN & KEI Attorneys At L P.O. Box 226	aw

Sante-Hiel Alldes \$7504-2265

## KELLAHIN & KELLAHIN Attorney at Law

W. Thomas Kellahin
Recognized Specialist in the Area of
Natural Resources-oil and gas lawNew Mexico Board of Legal Specialization

P.O. Box 2265 Santa Fe, New Mexico 87504 117 North Guadalupe Santa Fe, New Mexico 87501

Telephone 505-982-4285 Facsimile 505-982-2047 kellahin@earthlink.net

September 1, 2004

#### HAND DELIVERED

Mr. Mark E. Fesmire, Director Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

Re: Hillburn "13" Well No. 4

Unit C of Section 13, T16S, R35E

Administrative Application of Chesapeake Operating Company

for an unorthodox gas well location,

North Shoe Bar-Strawn Pool Lea County, New Mexico

Dear Mr. Fesmire:

On behalf of Chesapeake Operating Company, please find enclosed our referenced administrative application.

Thomas Kellahin

cc: Chesapeake Operating, Inc.
Attn: Lynda Townsend

## STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF CHESAPEAKE OPERATING COMPANY FOR AN UNORTHODOX OIL WELL LOCATION, LEA COUNTY, NEW MEXICO.

#### ADMINISTRATIVE A P P L I C A T I O N

CHESAPEAKE OPERATING COMPANY ("Chesapeake") by its attorneys, Kellahin & Kellahin, and seeks an order authorizing the drilling and production of its Hillburn "13" Well No. 4 at an unorthodox oil well location 335 feet from the North line and 1738 feet from the West line (Unit C) of Section 13, Township 16 South Range 35 East, NMPM to be dedicate to a standard 160-acre oil spacing unit dedicated to production from the North Shoe Bar-Strawn Pool.

In support of its application Chesapeake states:

- 1. Chesapeake proposes to drill its Hillburn "13" Well No. 4 at an unorthodox oil well location 335 feet FNL and 1738 feet FWL (Unit C) of Section 13, T16S, R35E, Lea County, New Mexico and dedicated to a 160-acre oil spacing unit consisting of the NW/4 of this section. See C-102 attached as Exhibit "A"
- 2. This spacing unit is subject, among other things, to the Special Rules and Regulations for the North Shoe Bar-Strawn Pool (Order R-4658, dated November 10, 1973) requiring 160-acre standard spacing units and well to be located with 150-feet of the center of a quarter-quarter section.
- 3. This spacing unit contains the following wells:
  - a. Hillburn Well No. 1
    - i. API 30-025-24473—See C-102 attached as Exhibit "B"
    - ii. Location: 660 feet FWL and 1980 feet FNL (Unit E)
    - iii. Status: downhole commingled Wolfcamp and Strawn
    - iv. Current Rate: 3-5 BPOD
    - v. Results: CUM'd 456MBO and 1.1BCF
    - vi. Porosity thickness about 40 feet
      - a. Well has depleted the Strawn reservoir in the W/2NW/4 of Section 13-See Exhibit "E"

#### NMOCD Administrative Application Chesapeake Operating Company -Page 2-

- b. Hillburn Well No. 2
  - i. API 30-025-29349—See C-102 attached as Exhibit "C"
  - ii. Location: 1190 feet FNL and 1980 feet FWL (Unit C)
  - iii. Results: drilled to Strawn-missed Strawn reservoir
  - iv. Status: completed and produce from Wolfcamp
- c. Hillburn Well No. 3
  - i. API 30-025-35596—See C-102 attached as Exhibit "D"
  - ii. Location:
    - 1. Surface: 660 feet FNL and 510 feet FWL
    - 2. #1 lateral: 1563 feet southeast of surface
    - 3. #2 lateral: 1330 feet south of surface
  - iii. Results: currently makes about 3 BPOD from Strawn
  - iv. Status: drilled to Strawn, vertical and two horizontals with the wellbore path not completely horizontal. It was deviated down through the Strawn at an angle such that by the time it got to where the Strawn porosity would have been, it was below the Strawn porosity. It's bottom hole location (TD") is in the Atoka.

#### TECHNICAL EVIDENCE

- 4. Chesapeake, based upon geologic data, believes that its proposed unorthodox well location will provide a better opportunity to access potential production in the Strawn formation that cannot be produced the other wells within this spacing unit:
  - a. Isopach of Strawn mound. See Exhibit "E"
    - i. This strawn mound is not present at the closest standard location
    - ii. This unorthodox location is estimated to be within 40 foot thickness counter as shown on Exhibit "E"
    - iii. The Hillburn Well No. 3 results increase the need for the requested unorthodox well location
  - b. Arbitrary seismic line. See Exhibit "F"

NMOCD Administrative Application Chesapeake Operating Company -Page 3-

#### **NOTIFICATION**

- 5. Chesapeake's proposed location encroaches towards the S/2 of Section 12 operated by Yates Petroleum Corporation.
- 6. In accordance with the Division's notice requirements, a copy of this application has been sent to Yates Petroleum Corporation. See Exhibit "G" and "G-1"attached

WHEREFORE, Chesapeake, as applicant, requests that the Division enter its order approving this requested unorthodox well location

RESPECTFULLY SUBMITTED:

W. THOMAS KELLAHIN KELLAHIN & KELLAHIN

P. O. Box 2265

Santa Fe, New Mexico 87504

Telephone:

(505) 982-4285

Fax:

(505) 982-2047

DISTRICT I 1885 R. French Rt., Hobbs, Mr. 58240

DISTRICT II 611 South First, Artesis, NM 88210

DISTRICT III 1000 Ein Brazon Ed., Artec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fa. RM 87500

#### State of New Mexico

Energy, Minerals and Matural Essentrem Department

Form C-102 Revised March 17, 1900

Submit to Appropriate District Office

State Lease - 4 Copies

Pre Lease - 5 Copies

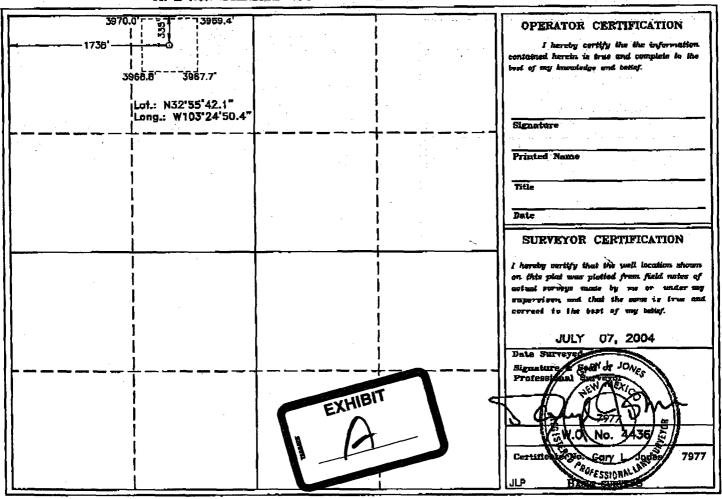
#### OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 67504-2088

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number			Pool Coda			Poul Name		1 - 13
Property (	Code				Property Near	· · · · · · · · · · · · · · · · · · ·		Vell No	mper
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					Surface Loc	ation			
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## NEW MEXICO OIL CONSERVATION COMMISSION WEL OCATION AND ACREAGE DEDICATIO .AT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Cono.	co Inc.		HILBURN		Well No.
Unit Letter	Section	Township	Range	County	
Actual Footage Loc	13	16 SOUTH	35 EAST	LEA_	
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Yes	☐ No If an	nswer is "yes." type of	consolidation		
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#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

#### OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the outer boundaries of the Section.

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Unit Letter	Section	Township	Hang	) <del>e</del>	County		
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						Certificate No.	
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MATRICE I 1816 H. French Dr., Hobbs, RM 68240 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 16, 2000 Submit to Appropriate District Office State Lease — 4 Copies Foe Lease — 3 Copies

P.O. Drawer DD, Artesia, NM 86811-0719

MATERIT III 1000 Rio Brance Rd., Autoc, NM 87410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

DESCRIPTIVE 2040 Routh Pacheco, Santa Ve, Mil 87506

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	30-025-3559	Posl Code 56270		Pool Name NORTH SHOEBAR (S	STRAWN)
٠.	Property Code 25993		Property Name HILBURN		Well Number
	0GRID No. 25797	PERMIA	Operator Name N RESOURCES	INC.	Elevation 3968

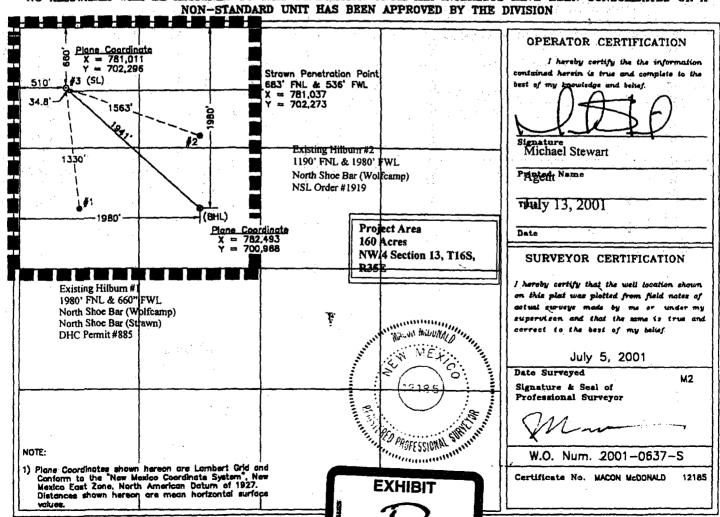
#### Surface Location

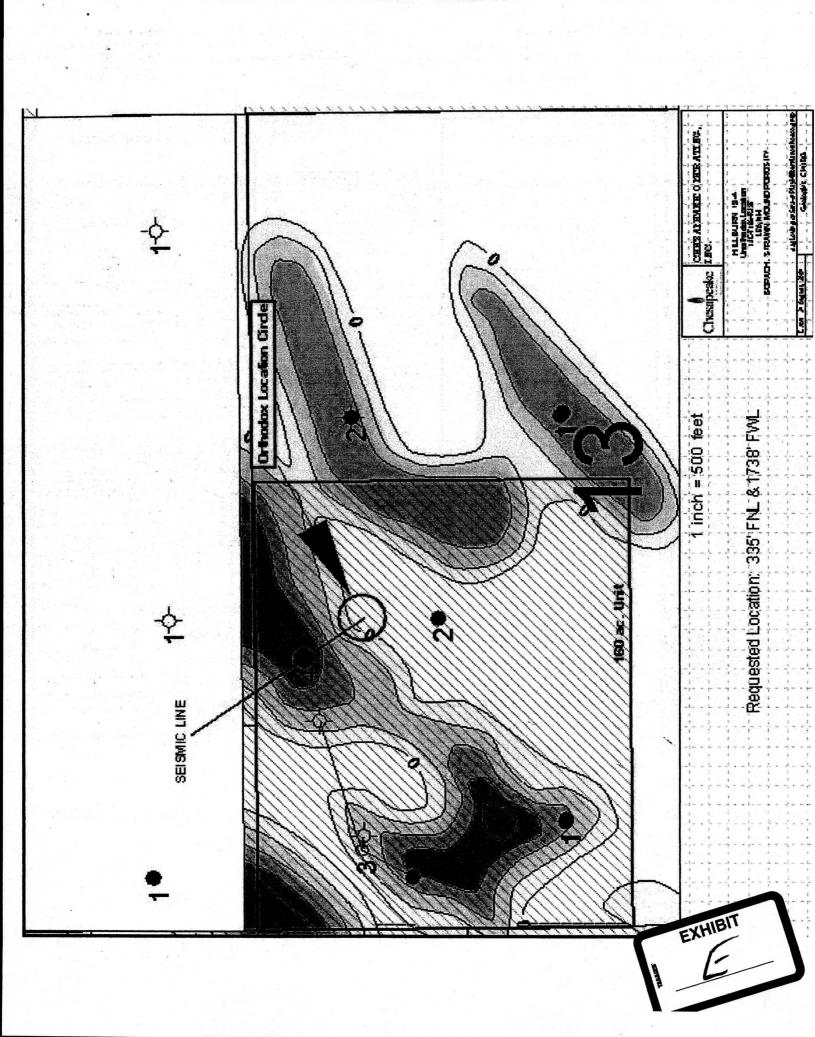
UL or let No.   Section   Township   Range   Let Lim   Feet from the   North/South line   Feet	from the East/West lin	e County
D 13 16 S 35 E 660 NORTH	510 WEST	LEA

#### Bottom Hole Location If Different From Surface

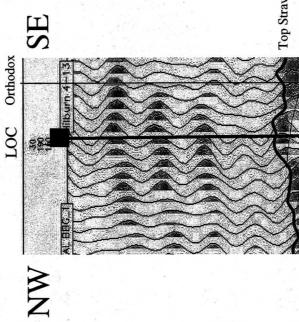
UL or lot No.	Section 13	Township 16 S	Range 35 E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 1980	Mest/West line WEST	County
Dedicated Acres	I laint a	r Infill Co	nsolidation	Code Or	der No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A





# Arbitrary Seismic Line



Top Strawn (blue)

Strawn Porosity (yellow)

Hillburn 13-4 13C-T16S-R35E 330' FNL & 1734' FWL





#### EXHIBIT "G"

Offsetting Notice:

Section 12: South Half

Operator:

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

## KELLAHIN & KELLAHIN Attorney at Law

W. Thomas Kellahin
Recognized Specialist in the Area of
Natural Resources-oil and gas lawNew Mexico Board of Legal Specialization

P.O. Box 2265
Santa Fe, New Mexico 87504
117 North Guadalupe
Santa Fe, New Mexico 87501

Telephone 505-982-4285 Facsimile 505-982-2047 kellahin@earthlink.net

September 1, 2004

#### CERTIFIED MAIL-RETURN RECEIPT REQUESTED

### NOTICE OF THE FOLLOWING NEW MEXICO OIL CONSERVATION DIVISION ADMINISTRATIVE CASE:

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Attn: Randy Patterson

Re: Administrative Application of Chesapeake Operating Company for approval of unorthodox well location for its Hillburn "13" Well No. 4, Unit C Section 13, T16S, R35E, Lea County, New Mexico.

Dear Mr. Patterson:

On behalf of Chesapeake Operating Company, please find enclosed a copy of its referenced administrative application. If Yates has no objection, then there is nothing for you to do. If Yates is willing to waiver objection, please sign this letter as indicated and return it to me. However, should Yates have any objection to the Division approving this application, then it will be necessary for you to file a written objection with the New Mexico Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within twenty (20) days of the date of this letter. Failure to file a timely objection will preclude Yates from objecting at a later date.

W. Thomas Kellahin

WΑ	TT.	/ER	OF .	OR	IF.	CT	ION	٠

By:				_with authority	for
and o	n behalf of	Yates	Petroleum	Corporation	
Date:					

