

EXHIBIT 4

CHESAPEAKE

sperry-sun
DRILLING SERVICES

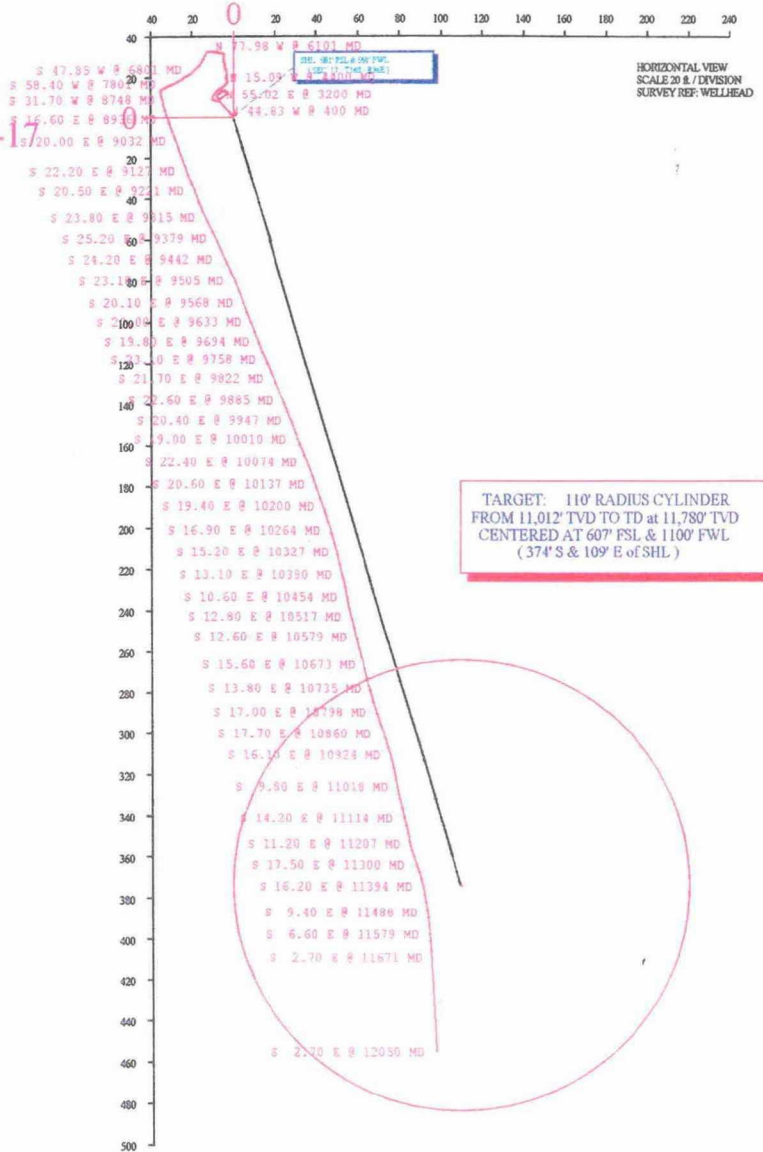
A HALLIBURTON COMPANY

VERTICAL VIEW
SCALE 100' = DIVISION
TVD REF: WELLHEAD
VERTICAL SECTION REF: WELLHEAD

LEA COUNTY, NEW MEXICO

SEC. 17 - T16S - R36E

COLLEGE of the S.W. #1-17
(PROPOSAL)



CRITICAL POINT DATA

	MD	Inc	Azi	TVD	N/S	E/W
SHL	0	0.00°	S 16 E	0	0 N	0 E
8-5/8" CSG PT	4300	0.00°	S 16 E	4300	0 N	0 E
KOP	9000	0.00°	S 16 E	9000	0 N	0 E
END OF BUILD	9603	12.07°	S 16 E	9599	61 S	18 E
BEGIN DROP	10861	12.07°	S 16 E	10829	313 S	91 E
(TARGET TOP)	11047	8.35°	S 16 E	11012	345 S	101 E
PROPOSED BHL	11817	0.00°	S 16 E	11780	374 S	109 E

DESIGNED BY DAVE EGEDAH
FILE NAME: COLLEGE
DATE: SEPTEMBER 10, 1999

EXHIBIT 4



SEP 27 1999

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

September 24, 1999

Chesapeake Operating, Inc.
P. O. Box 18496
Oklahoma City, Oklahoma 73154-0496

Telefax No. (405) 879-9562

Attention: Lynda F. Townsend

Re: *Application dated September 21, 1999 for Chesapeake Operating, Inc. to re-enter and recomplete the plugged and abandoned David Fasken Berry Hobbs Well No. 1 (API No. 30-025-29535), to be redesignated the College of the Southwest "17" Well No. 1, by kicking-off and directionally drilling into the Undesignated Northeast Shoe Bar-Strawn Pool (if this is the correct pool that the Hobbs District office places this well) within the S/2 SW/4 Section 17, Township 16 South, Range 36 East, NMPM, Lea County, New Mexico.*

Dear Ms. Townsend:

The subject filing was received in this office on September 22, 1999. My review of this application indicates that, if this well is indeed placed in the Northeast Shoe Bar-Strawn Pool, it can be administered at the District level since it involves a well that is being directionally drilled and, as long as the resulting bottom-hole location is within the set back requirements from the outer boundary of the applicable spacing and proration unit of the proposed interval to be completed [see Division Rules 111.A(6) and (7) and 111.C(1) and (2), which rules streamlined the directional drilling procedures and the "*Special Rules and Regulation for the Northeast Shoe Bar-Strawn Pool*", as promulgated by Division Order No. R-10848, as amended]. Your application for directional drilling will be forwarded to the Hobbs District office of the Division for processing. Please be aware however that if the Hobbs District office places this well into another pool with a different set of governing rules and procedures, Chesapeake Operating, Inc. will be responsible for obtaining an exception to those rules.

Should you have any questions or comments concerning this matter, please contact me in Santa Fe at (505) 827-8185. Thank you.

Sincerely,

Michael E. Stogner
Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Hobbs
W. Thomas Kellahin, Legal Counsel for Chesapeake Operating, Inc. - Santa Fe

EXHIBIT 4

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

Operator Name and Address. Chesapeake Operating, Inc. P. O. Box 18496 Oklahoma City, OK 73154-0496		OGRID Number 147179
		API Number 30 - 0 25-29535
Property Code 22484	Property Name College of the Southwest 17	Well No. 1

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	17	16S	36E		981	So.	991	West	LEA

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	17	16S	36E		606	So.	1096	West	LEA

Proposed Pool 1 N.E. Shoe Bar-Strawn	Proposed Pool 2
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Work Type Code R-Horizontal	Well Type Code O	Cable/Rotary R	Lease Type Code P	Ground Level Elevation 3937'
Multiple No	Proposed Depth 10,100'	Formation Strawn	Contractor Patterson #48	Spud Date as soon as approved

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17"	13-3/8"	48#	399'	400	Surface
12-1/4"	8-5/8"	24 & 32#	4300'	1825 Lite	
				200 Cl. C	

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.

Chesapeake Operating proposes to Re-Enter & directionally drill in the Strawn formation with Patterson as the drilling contractor.

Chesapeake will TIH w/7-7/8" bit & drill out cement plugs. COI will then TIH with DP open ended to \pm 10,000', set cement kick off plug from 10,000' to \pm 9,000'. TOOH w/DP to 9000', C&C, TOOH to PU kick off BHA. RU csg crew & run 5-1/2" 17# P-110 LTC to surface.

Well previously known as Berry Hobbs #1.

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

Signature: *Barbara J. Bale*

Printed name:
Barbara J. Bale

Title:
Regulatory Analyst

Date:
09/21/99

Phone:
(405)848-3000

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Title:

Approval Date: SEP 24 1999

Expiration Date:

Conditions of Approval:
Attached ☐

DISTRICT I
P.O. Box 1880, Hobbs, NM 88241-1880

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-29535	Pool Code 96649	Pool Name N.E. Shoe Bar-Strawn
Property Code 22484	Property Name COLLEGE OF THE SOUTHWEST 17	Well Number 1
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING, INC.	Elevation 3937

Surface Location

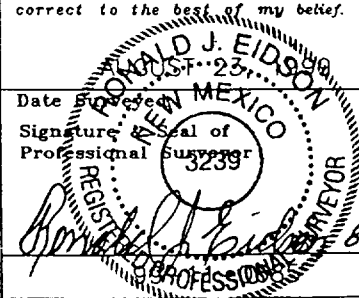
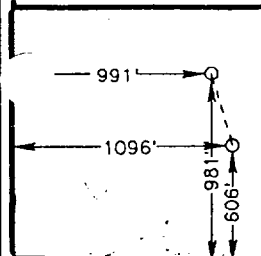
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	16 S	36 E		981	SOUTH	991	WEST	LEA

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
M	17	16 S	36 E		606	SOUTH	1096	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

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

		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Barbara J. Bale</u> Signature Barbara J. Bale Printed Name Regulatory Analyst Title 09/21/99 Date	
		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.  Date Surveyed: 8-24-99 Signature & Seal of Professional Surveyor DMCC Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641 MACON McDONALD 12185	
SURFACE LAT. 32°55'02.58" N LONG. 103°22'54.83 W NME NAD 27 Y-698773.5 X-791971.3			
 BOTTOM HOLE LAT. 32°54'58.87" N LONG. 103°22'53.59" W NME NAD 27 Y-698400.0 X-792080.0			

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
P.O. Box 87410, Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name COLLEGE OF THE SOUTHWEST 17	Well Number 1
OGRID No.	Operator Name CHESAPEAKE OPERATING, INC.	Elevation 3937

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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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
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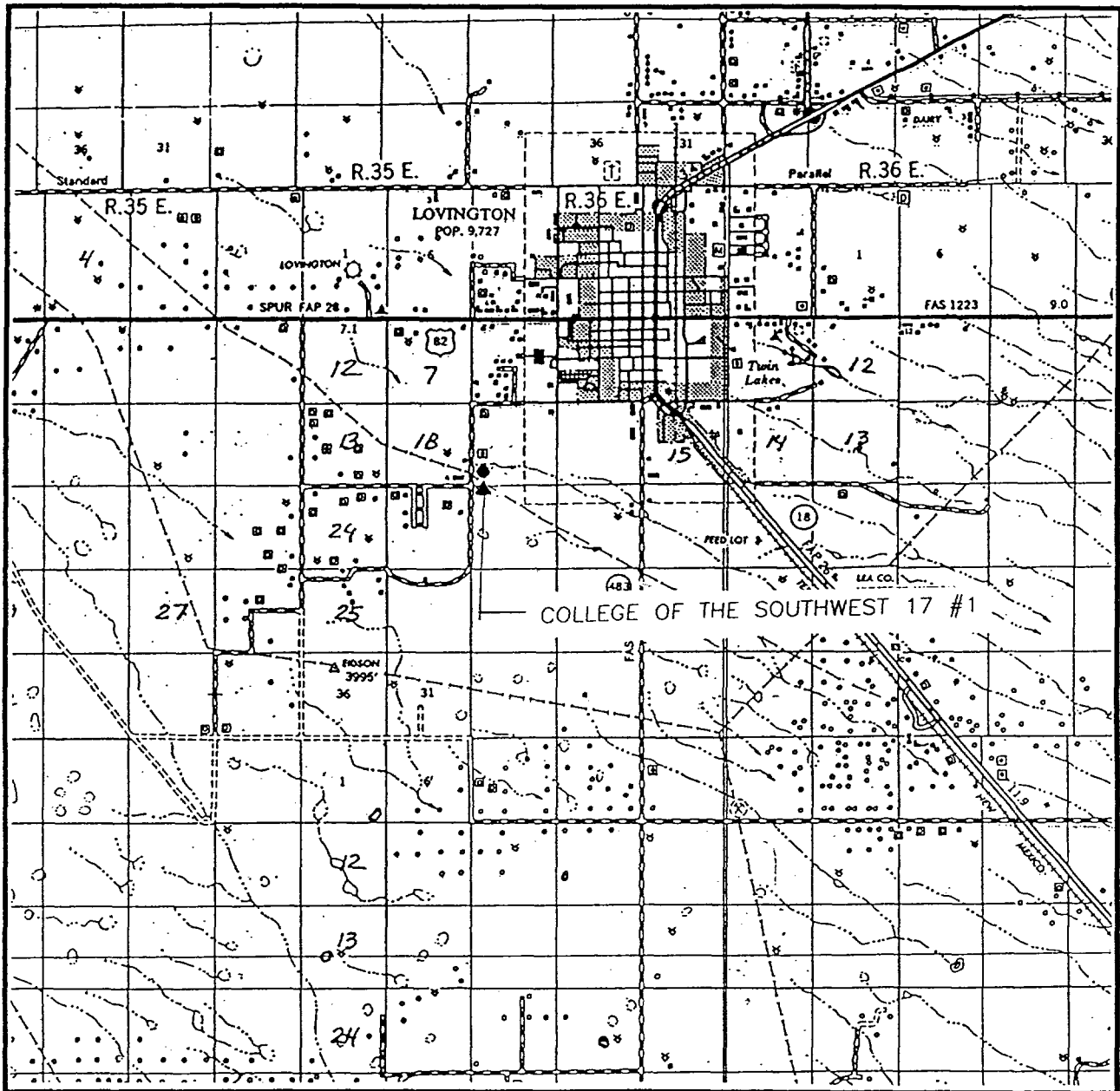
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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>SURFACE</p> <p>LAT. 32°55'02.58" N LONG. 103°22'54.83" W NME NAD 27 Y-698773.5 X-791971.3</p> <p>991'</p> <p>1096'</p> <p>580' FSL - 606' BHL</p> <p>1095' FWH</p> <p>BOTTOM HOLE</p> <p>LAT. 32°54'58.87" N LONG. 103°22'53.59" W NME NAD 27 Y-698400.0 X-792080.0</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature _____</p> <p>Printed Name _____</p> <p>Title _____</p> <p>Date _____</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 knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p>DMCC</p> <p>8-24-99</p> <p>Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641 MACON McDONALD 12185</p>
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EXHIBIT 4

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 17 TWP. 16-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 981 FSL & 991' FWL

ELEVATION 3937

OPERATOR CHESAPEAKE OPERATING, INC.

LEASE COLLEGE OF THE SOUTHWEST 17

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117



CONTOUR INTERVAL:
LOVINGTON NW - 5'
LOVINGTON - 5'

**JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117**