

District I
1625 N. French Dr., Hobbs, NM 88240
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

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☒ AMENDED REPORT

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

¹ Operator Name and Address Chesapeake Operating, Inc. P. O. Box 11050 Midland, TX 79702-8050		² OGRID Number 147179
		³ API Number 30 025-37129
³ Property Code 34679	⁵ Property Name KF 4 State	⁶ Well No. 1
⁹ Proposed Pool 1 Osudo;Morrow,South(Gas) 82200		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no. X	Section 4	Township 21S	Range 35E	Lot Idn	Feet from the 660	North/South line South	Feet from the 990	East/Westline East	County Lea
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8 Proposed Bottom Hole Location If Different From Surface

UL or lot no. W	Section 4	Township 21S	Range 35E	Lot Idn	Feet from the 688	North/South line South	Feet from the 1947	East/Westline East	County Lea
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Additional Well Information

¹¹ Work Type Code Amend Drlg Permit	¹² Well Type Code Gas	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 3621
¹⁶ Multiple	¹⁷ Proposed Depth 12100	¹⁸ Formation Morrow	¹⁹ Contractor Patterson	²⁰ Spud Date 04/27/2005
Depth to Groundwater 150'		Distance from nearest fresh water well 1000		Distance from nearest surface water 1000
Pit: Liner: Synthetic ☒ 12 milst thick Clay ☐ Pit Volume: 12139 bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.5	13.375	48	450	500	0
12.25	9.625	40	5350	1300	0
8.75	4.5	13.5	12100	650	4000 9500

²² 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.

The 4 1/2" casing cement is as follows: Lead: 500 sx of Interfill H + additives; Tail: 150 sx of Super H + additives

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Horizontal



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 the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Brenda Coffman

Title: Regulatory Analyst

E-mail Address: bcoffman@chkenergy.com

Date: 6-2-05

Phone: (432)687-2992

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: 5007 6 0 NOC
JUN 03 2005

Expiration Date:

Conditions of Approval Attached ☐

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

811 South First, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37129	Pool Code 82200	Pool Name Osado, Marrow South Gas
Property Code 34679	Property Name KF "4" STATE	Well Number 1
OCRID No. 147179	Operator Name CHESAPEAKE OPERATING INC.	Elevation 3621'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
X	4	21 S	35 E		660	SOUTH	990	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
W	4	21 S	35 E		688	SOUTH	1947	EAST	LEA
Dedicated Acres 320	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

LOT 12 - 40 AC.	LOT 11 - 40 AC.	LOT 10 - 40 AC.	LOT 9 - 40 AC.
LOT 13 - 40 AC.	LOT 14 - 40 AC.	LOT 15 - 40 AC.	LOT 16 - 40 AC.

1/4 COR. 1/4 COR.

Paint of entry @ 11,400' (marrow)

Lat.: N32.5025°
Long.: W103.3688°
(NAD 27)

Lat.: N32.5025°
Long.: W103.3667°
(NAD 27)

1947

B.H. 660'

SL 660'

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Brenda Coffman
Signature
Brenda Coffman
Printed Name
Reg Analyst
Title
6-2-05
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.

MARCH 10, 2005
Date Surveyed

GARY L. JONES
Signature & Seal of Professional Surveyor

7977
W.G. No. 5286

7977
Certificate No. Gary L. Jones

BASIN SURVEYS

CHESAPEAKE OPERATING, INC.
KF "4" State #1

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : J-profile plan6
Our ref : prop4590
License :

Date printed : 2-Jun-2005
Date created : 2-Jun-2005
Last revised : 2-Jun-2005

Field is centred on n32 30 0.000,w103 30 0
Structure is centred on n32 30 9.000,w103 22 0.12

Slot location is n32 30 9.000,w103 22 0.120
Slot Grid coordinates are N 547873.140, E 798011.514
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

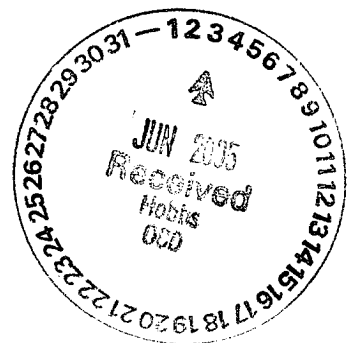
Reference North is Grid North



CHESAPEAKE OPERATING, INC.
KF "4" State #1, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : J-profile plan6
Last revised : 2-Jun-2005

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
10227.00	1.60	103.90	10223.28	104.81N	114.07E	0.00	-110.88	798125.58	547977.95
10300.00	1.60	103.90	10296.25	104.32N	116.05E	0.00	-112.87	798127.56	547977.46
10400.00	8.50	262.01	10395.93	102.95N	110.07E	10.00	-106.93	798121.59	547976.09
10500.00	18.49	263.89	10493.05	100.23N	86.93E	10.00	-83.88	798098.44	547973.37
10600.00	28.49	264.48	10584.65	96.24N	47.32E	10.00	-44.42	798058.84	547969.38
10653.21	33.81	264.65	10630.17	93.63N	19.93E	10.00	-17.12	798031.45	547966.77
11000.00	33.81	264.65	10918.32	75.65N	172.18W	0.00	174.37	797839.34	547948.80
11500.00	33.81	264.65	11333.78	49.73N	449.17W	0.00	450.46	797562.34	547922.87
11880.57	33.81	264.65	11650.00	30.00N	660.00W	0.00	660.60	797351.51	547903.14
11900.00	33.65	266.74	11666.16	29.19N	670.76W	6.03	671.33	797340.76	547902.33
11930.00	33.48	270.00	11691.16	28.72N	687.33W	6.03	687.88	797324.18	547901.86
12000.00	33.48	270.00	11749.54	28.72N	725.95W	0.00	726.48	797285.57	547901.86
12420.17	33.48	270.00	12100.00	28.72N	957.73W	0.00	958.16	797053.78	547901.86



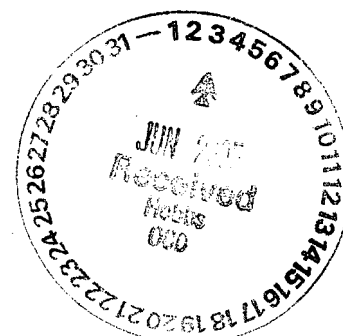
All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 958.16 on azimuth 271.72 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 271.72 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

CHESAPEAKE OPERATING, INC.
KF "4" State #1, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 2
Your ref : J-profile plan6
Last revised : 2-Jun-2005

				Comments in wellpath
				=====
MD	TVD	Rectangular Coords.		Comment
11880.57	11650.00	30.00N	660.00W	Target

Targets associated with this wellpath				
=====				
Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
Target		11650.00	30.00N 660.00W	2-Jun-2005



CHESAPEAKE OPERATING, INC.

Created by adrynm
Date plotted : 2-Jun-2005
Plot Reference is J-profile planB.
Coordinates are in feet reference structure.
True Vertical Depths are reference structure.
--- Baker Hughes INTEQ ---

Structure : KF 4 State #1

Slot : slot #1

Field : UNKNOWN

Location : LEA COUNTY, NEW MEXICO

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100'
Tie on	10227.00	1.60	103.90	10223.28	104.81	114.07	-110.88	0.00
KOP	10300.00	1.60	103.90	10296.25	104.32	116.05	-112.87	0.00
End of Build/Turn	10653.21	33.81	264.65	10630.17	93.63	19.93	-17.12	10.00
Target Target	11880.57	33.81	264.65	11650.00	30.00	-660.00	660.60	0.00
End of Drop/Turn	11930.00	33.48	270.00	11691.16	28.72	-687.33	687.88	6.03
T.D. & End of Hold	12420.17	33.48	270.00	12100.00	28.72	-957.73	958.16	0.00

