

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

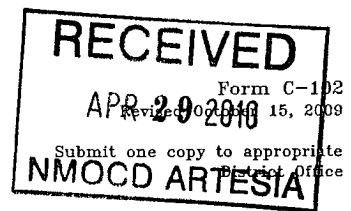
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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



WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37805	Pool Code 96403	Pool Name Wildcat; Bone Spring
Property Code 38260	Property Name SKEEN "34" STATE COM	Well Number 1H
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3105'

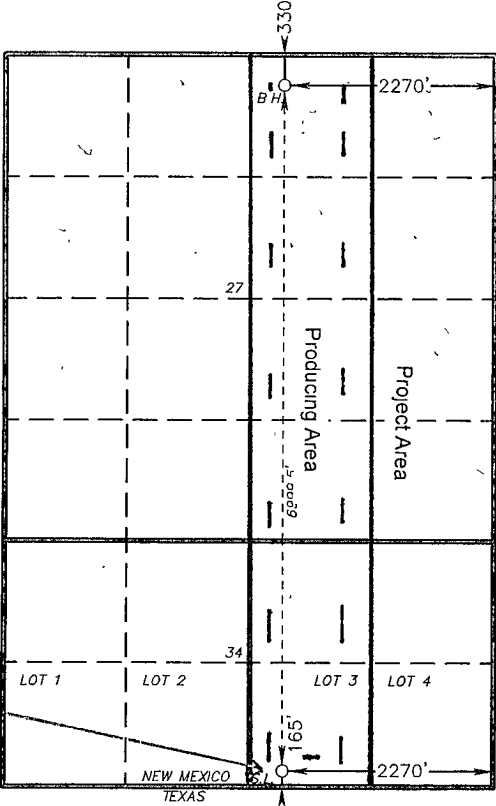
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 3	34	26 S	28 E		165	SOUTH	2270	EAST	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
B	27	26 S	28 E		330	NORTH	2270	EAST	EDDY
Dedicated Acres 226.61	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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32.01969007° Long - W 104.0742623° NMSPCE- N 370998.409 E 621629.384 (NAD-83) Penetration Point & SURFACE LOCATION Lat - N 32.00045335° Long - W 103.0741276° NMSPCE- N 364000.762 E 621687.902 (NAD-83)		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. <i>Bryan Arrant</i> 4/23/2010 Signature Date Bryan Arrant Printed Name 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. <i>GARY L. JONES</i> Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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DD

Permian District

NM -Eddy [Non-PLU Avalon Project]

Skeen 34 State Com 1H (Geoprog)-

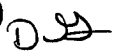
Skeen 34 State Com 1H (Geoprog)-

Skeen 34 State Com 1H (Geoprog)-

Plan: Skeen 34 State Com 1H (Geoprog)

Standard Planning Report

27 April, 2010

Accepted for record
NMOCD 

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Skeen 34 State Com 1H (Geoprog)-
Company:	Permian District	TVD Reference:	WELL @ 3127 0ft (Original Well Elev)
Project:	NM -Eddy [Non-PLU Avalon Project]	MD Reference:	WELL @ 3127.0ft (Original Well Elev)
Site:	Skeen 34 State Com 1H (Geoprog)-	North Reference:	Grid
Well:	Skeen 34 State Com 1H (Geoprog)-	Survey Calculation Method:	Minimum Curvature
Wellbore:	Skeen 34 State Com 1H (Geoprog)-		
Design:	Skeen 34 State Com 1H (Geoprog)		

Project	NM -Eddy [Non-PLU Avalon Project]		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Skeen 34 State Com 1H (Geoprog)-		
Site Position:		Northing:	363,989 95 ft
From:	Lat/Long	Easting:	580,514 98 ft
Position Uncertainty:	0 0 ft	Slot Radius:	0 000 in
		Latitude:	32° 0' 1 63440000 N
		Longitude:	104° 4' 24 98160000 W
		Grid Convergence:	0.14 °

Well	Skeen 34 State Com 1H (Geoprog)-		
Well Position	+N/-S	0.0 ft	Northing: 363,989.95 ft
	+E/-W	0 0 ft	Easting: 580,514 98 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	3,107 0 ft
		Latitude:	32° 0' 1 63440000 N
		Longitude:	104° 4' 24 98160000 W
		Ground Level:	3,107.0 ft

Wellbore	Skeen 34 State Com 1H (Geoprog)-		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	4/27/2010	7 92
			Dip Angle
			(°)
			59.94
			Field Strength
			(nT)
			48,573

Design	Skeen 34 State Com 1H (Geoprog)		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 0	0 0	0.0
			Direction
			(°)
			0.88

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0 00	0 00	0.0	0 0	0 0	0 00	0.00	0.00	0.00	
6,221 6	0 00	0 00	6,221.6	0 0	0.0	0.00	0 00	0 00	0 00	
6,865 9	90 20	0 88	6,630.9	410.6	6.3	14.00	14 00	0 00	0 88	
13,426 0	90 20	0 88	6,608.0	6,969.9	106 6	0 00	0 00	0 00	0.00	Skeen 34 State Com

Chesapeake Operating

Planning Report

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Company:	Permian District	TVD Reference:	WELL @ 3127 0ft (Original Well Elev)
Project:	NM -Eddy [Non-PLU Avalon Project]	MD Reference:	WELL @ 3127 0ft (Original Well Elev)
Site:	Skeen 34 State Com 1H (Geoprog)-	North Reference:	Grid
Well:	Skeen 34 State Com 1H (Geoprog)-	Survey Calculation Method:	Minimum Curvature
Wellbore:	Skeen 34 State Com 1H (Geoprog)-		
Design:	Skeen 34 State Com 1H (Geoprog)		

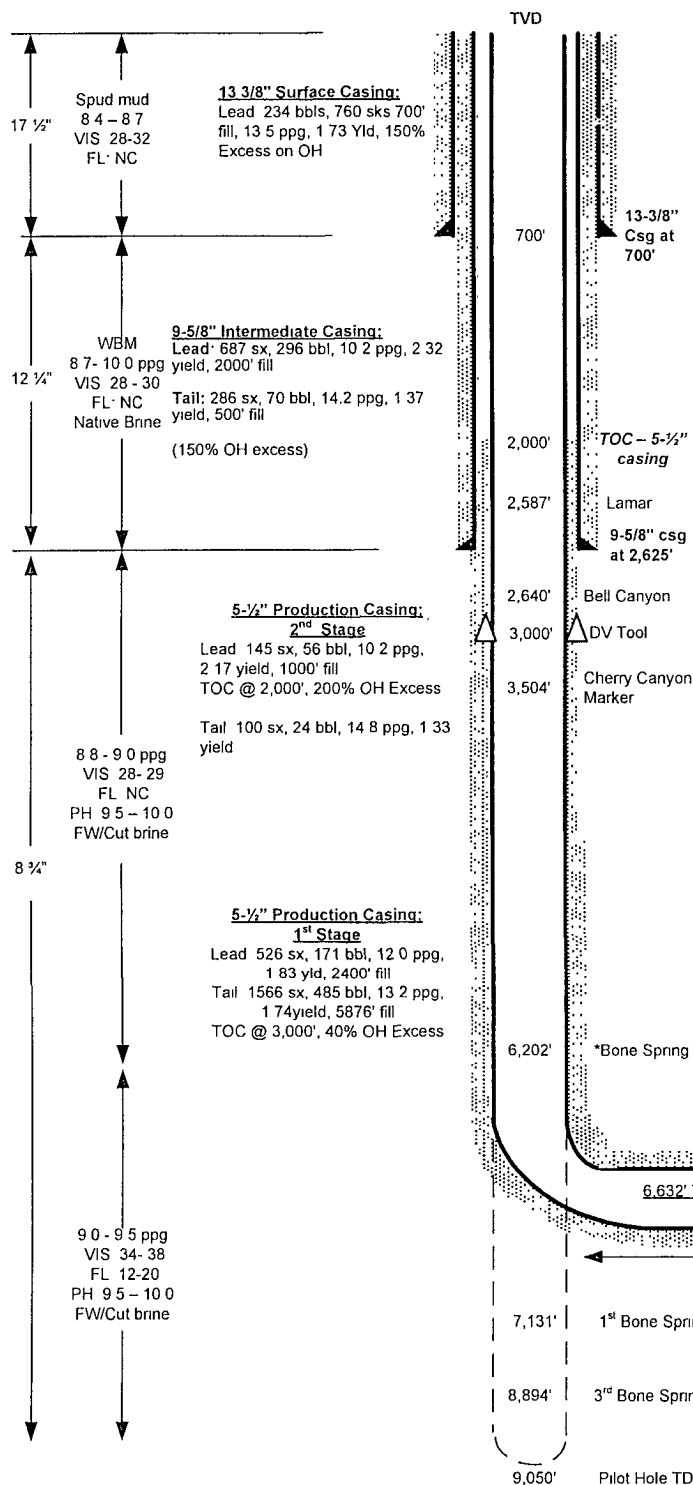
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 0	0 00	0.00	0 0	0.0	0.0	0 0	0 00	0.00	0.00
1,000 0	0 00	0.00	1,000.0	0.0	0 0	0 0	0 00	0.00	0.00
2,000.0	0 00	0.00	2,000.0	0.0	0 0	0 0	0 00	0.00	0.00
3,000.0	0 00	0.00	3,000.0	0.0	0.0	0.0	0 00	0.00	0.00
4,000.0	0 00	0.00	4,000 0	0.0	0 0	0.0	0 00	0.00	0.00
5,000 0	0.00	0 00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000 0	0 00	0.00	6,000.0	0.0	0 0	0.0	0 00	0.00	0.00
6,221.6	0.00	0.00	6,221 6	0.0	0 0	0.0	0.00	0.00	0.00
6,865.9	90.20	0 88	6,630 9	410 6	6.3	410 7	14 00	14 00	0.00
7,000 0	90.20	0 88	6,630 4	544 7	8 3	544 8	0 00	0 00	0.00
8,000 0	90.20	0 88	6,626 9	1,544 6	23.6	1,544.7	0.00	0 00	0.00
9,000.0	90 20	0 88	6,623 4	2,544.4	38.9	2,544 7	0.00	0.00	0.00
10,000.0	90 20	0 88	6,620 0	3,544.3	54.2	3,544 7	0.00	0.00	0.00
11,000.0	90 20	0 88	6,616 5	4,544 2	69.5	4,544 7	0.00	0.00	0.00
12,000.0	90 20	0 88	6,613 0	5,544 1	84.8	5,544 7	0.00	0.00	0.00
13,000.0	90.20	0 88	6,609 5	6,543 9	100 1	6,544 7	0.00	0.00	0.00
13,426.0	90 20	0 88	6,608 0	6,969.9	106 6	6,970 7	0.00	0.00	0.00

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Skeen 34 State Com 1H	0.00	0 00	6,608.0	6,969.9	106 6	370,959 88	580,621 58 32° 1' 10 61040000 N 04° 4' 23 54880000 W		
- plan hits target center									
- Point									
Skeen 34 State Com 1H	0.00	0 00	6,632.0	0 0	0.0	363,989.95	580,514 98 32° 0' 1 63440000 N 04° 4' 24.98160000 W		
- plan misses target center by 170.3ft at 6543 5ft MD (6511.4 TVD, 120 2 N, 1 8 E)									
- Point									

Chesapeake Operating Inc

Proposed Drilling Program

Well : Skeen 34 State Com 1H
Field : Delaware Basin North
County : Eddy **State** : NM
Surf Locat : Section 34-26S-28E, 165' FSL & 2,270' FEL Lat: 32.000454 Long: -104.073606 (NAD27)
BH Locat : Section 27-26S-28E, 330' FNL & 2,270' FWL Lat: 32.019614 Long: -104.073208 (NAD27)
KB Elev : 3,127' [Estimate] **Grd Elev** : 3,107' [Estimate]



Wellhead Equipment

Tree Connection	
Backpressure Valve	
Tubing Spool	11" 5M x 7 1/16" 10K
Casing Spool	13-5/8" 5M x 11" 5M
Bradenhead	13-3/8" SOW x 13-5/8" 5M

Logging Program

Company	Log Type	Interval
XX		
XX		Curve and lateral

Mud logging personnel at intermediate casing shoe to TD

Tubular Detail

	Size	Wt	Grd	Conn.	From	To
Surface	13-3/8"	48#	H-40	STC	0'	700'
Inter	9 5/8"	40#	J-55	LTC	0'	2,500'
Prod	5 1/2"	20.0#	L-80	LTC	0'	Lateral TD

Lateral Directional Plan

	MD	INC	AZM	TVD	BUR	DLS
KOP	6,222'	0	0	6,222'	0	0
EOB	6,866'	90.2	0.88	6,631'	14.0	14.0
TD	13,426'	90.2	0.88	6,608'	0	0

Vendors

Rig	
Directional	
Mud	
Cement	
Wellhead	
Wireline Logging	
Mud Logging	

**Mud logging at intermediate casing shoe

Accented for record
111000

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : Skeen 34 State Com 1H

RIG : Patterson 62

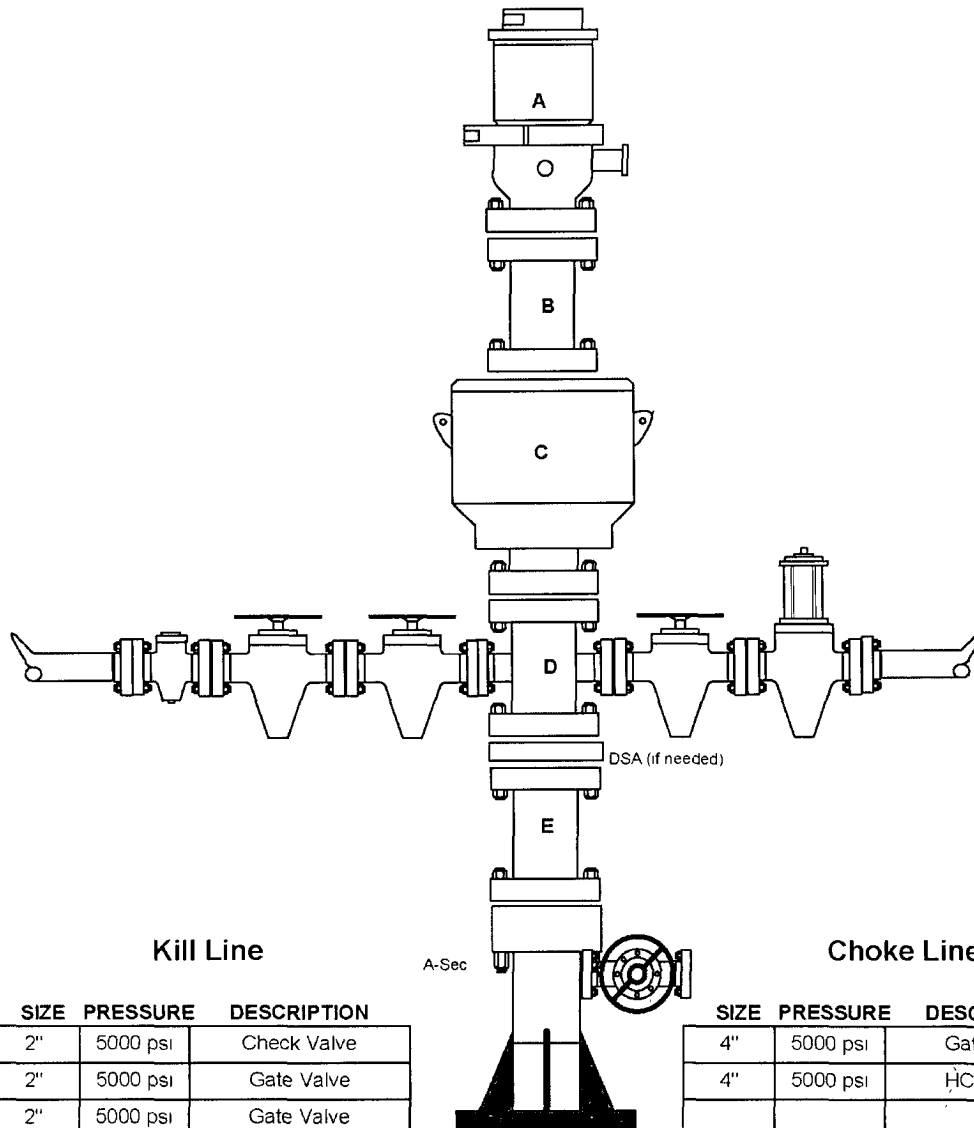
COUNTY : Eddy

STATE: New Mexico

OPERATION: Drill out below 13-3/8" Casing (12-1/4" hole size)

	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	500 psi	Rot Head
B	13-5/8"	5000 psi	Spacer Spool
C	13-5/8"	5000 psi	Annular
D	13-5/8"	5000 psi	Mud Cross
E	13-5/8"	5000 psi	Spacer Spool
DSA	13-5/8" 5M x 13-5/8" 5M (if needed)		
A-Sec	13-3/8" SOW x 13-5/8" 5M		

**Accepted for record
NMOCD**



Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	5000 psi	Check Valve
2"	5000 psi	Gate Valve
2"	5000 psi	Gate Valve

Choke Line

SIZE	PRESSURE	DESCRIPTION
4"	5000 psi	Gate Valve
4"	5000 psi	HCR Valve