

OCD-ARTESIA

Form 3160-5
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 19 2007

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

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SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

OCD-ARTESIA

5. Lease Serial No.
NMM 017222

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
MOSAIC 34 FEDERAL 2H2. Name of Operator
CHESAPEAKE OPERATING, INC.

ATTN: LINDA GOOD

9. API Well No.
30-015-358313a. Address
P. O. BOX 18496
OKLAHOMA CITY, OK 73154-04963b. Phone No. (include area code)
405-767-427510. Field and Pool or Exploratory Area
UNDES. WILLOW LAKE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 371' FSL 365' FEL., (SESE), BHL 330 FSL 2310 FWL (SESW) SECTION 34, T24S, R28E

11. Country or Parish, State
EDDY COUNTY, NEW MEXICO

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

ATTN: WESLEY INGRAM

CHESAPEAKE, RESPECTFULLY, REQUESTS, VERBAL APPROVAL TO CHANGE THE DRILLING PLAN PER THE ATTACHED. WE PLAN TO SPUD THIS WELL SOON.

Intermediate casing to be set at approximately 2600' below the base of the salt within the Lamar limestone.

(CHK PN 615928)

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

LINDA GOOD

Title FEDERAL REGULATORY ANALYST

Signature

Linda Good

Date 12/07/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVED

Date DEC 7 2007

WESLEY W. INGRAM

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Purpose	Interval	Hole Size	Casing Size	Weight	Grade	Thread	Condition
Intermediate	0-2600	12 25	9 5/8	36	J55	LTC	New

Cement:

Interval	Type	Amount	Yield	Washout	Excess
0-2200	Class C + additives	605	2.01	0	100
2200-2600	Class C + additives	215	1.32	0	100

Safety Factor:

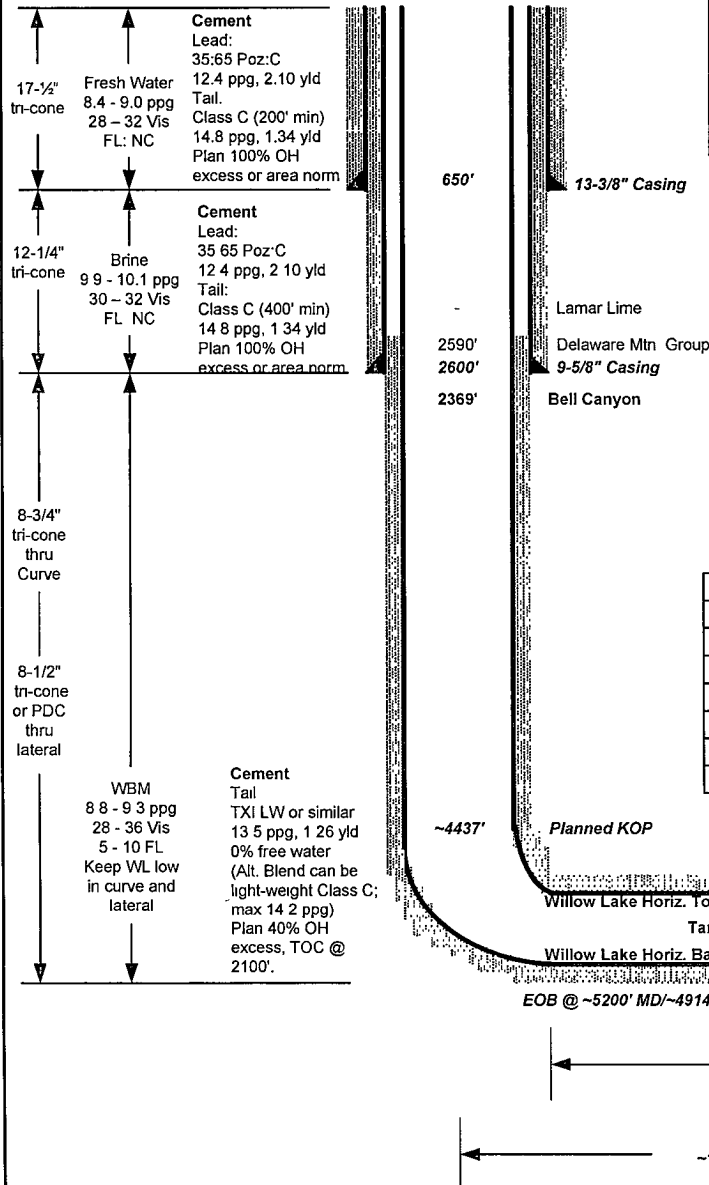
9.625 Burst safety factor = 3.52 (casing test)
 9.625 Burst safety factor = 1.96 (gas to surface)
 Collapse safety factor (complete evacuation)
 9.625 = 1.66
 Collapse safety factor (50% evacuation)
 9.625 = 3.74
 9.625 Tension safety factor = 5.05 (cement job)
 9.625 Tension safety factor = 6.43 (pressure test)

Well : Mosaic 34 Federal 2H
Field : SE Eddy Project – Willow Lake Prospect
County : Eddy **State** : NM
Surf Locat : Section 34-24S-28E, 371' FSL & 365' FEL
BH Locat : Section 34-24S-28E, 330' FSL & 2310' FEL (Hard Line)
KB Elev : 3005' **Grd Elev** : 2987'



Wellhead Equipment

Tree Connection	
Backpressure Valve	
Tree Description	
Tubing Spool	11" 5M x 7-1/16" 5M
B-Section	13-5/8" 3M x 11" 5M
Casing Head	13-5/8" SOW x 13-5/8" 3M



Tubular Detail					
	Size	Wt	Grd	Conn.	Depth
					From To.
Surface	13-3/8"	48.0#	H-40	ST&C	0' 650'
Int.	9-5/8"	36.0#	J-55	LT&C	0' 2600'
Prod.	5-1/2"	17.0	N-80	LT&C	0' TD
Tubing 2-7/8" 6.5# J-55 8rd EUE (or per Asset Manager)					
Annular Fluid					

Logging Program

Company	Log Type	Interval
TBD	Triple Combo	650' - 4400'
DDC	MWD (GR)	4437' - TD
	Mudlogger	2500' - TD

5 - 1/2" Casing

Est. TD
 ~6,625' MD
 (~4870' TVD)

Note: All Depths are TVD unless otherwise indicated

Drawn by:
 T Nance/Y Cho

Date:
 12/6/07

Rig:
 Patterson #142

AFE No.: 144635
 Property No.: 615928