

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

RM

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		RECEIVED MAR 12 2010 NMOCD ARTESIA	5. Lease Serial No NM12110 (SHL); LG4437 (BHL)
2. Name of Operator EOG Resources Inc.			6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 432-686-3689		7. If Unit or CA/Agreement, Name and/or No
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 330' FNL & 330' FEL, U/L A Sec 31, T16S, R28E			8. Well Name and No Lucky Wolf 31 1H Fed Com
			9. API Well No. 30-015-37280
			10. Field and Pool, or Exploratory Area Dog Canyon; Wolfcamp
			11. County or Parish, State Eddy NM

12. CHECK 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 type="checkbox"/> Subsequent Report	<input checked="" 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	

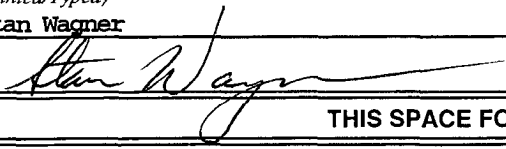
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

EOG Resources requests a change in the approved APD for 13-3/8" surface casing.

APD reflects: 13-3/8", 48#, K55 STC surface casing.

Please change to: 13-3/8", 48#, H40 STC surface casing.

Minimum design factors remain the same: 1.10 for collapse, 1.25 for burst, 1.60 for tension.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stan Wagner		Title Regulatory Analyst
Signature 		Date 3/5/10
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	APPROVED /s/ Roger Hall Date MAR - 5 2010 Petroleum Engineer BUREAU OF LAND MANAGEMENT
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.	Office	
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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		

D. J. 3-15-10

Summary of Engineer's Wellbore Evaluation

In a Cave Karst Section. Cave zones require 2 csg strings, w/their annulus cmt'd.

Pg 1 of 1

13 3/8	surface csg in a	17 1/2	inch hole.	<u>Design Factors</u>				<u>SURFACE</u>	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	48.00	H 40	ST&C	13.42	3.53	0.58	500	24,000	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 993							Totals:	500	24,000
<u>Comparison of Proposed to Minimum Required Cement Volumes</u>									
Hole	Annular	Proposed	CuFt Cmt	Min	Excess	Drilling	Calc	Req'd	Min Dist
Size	Volume	Sx Cmt	Proposed	Cu Ft	% Cmt	Mud Wt	MASP	BOPE	Hole-Cplg
17 1/2	396	600	810	396	105	9.20	1471	2M	1.56
Frac gradient is 3.48, SF for burst is OK. Sundry for change from 48#, K-55, ST&C to 48#, H-40, ST&C surface casing									

7	casing inside the	13 3/8	casing.	<u>Design Factors</u>				<u>INTERMEDIATE</u>	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	26.00	HCP 110	LT&C	4.60	3.08	3.35	5,800	150,800	
"B"							0	0	
"C"							0	0	
"D"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	5,800	150,800
<u>The cement volume(s) proposed may achieve a top</u>				0	<u>feet from surface.</u>				
Hole	Annular	Proposed	CuFt Cmt	Min	Excess	Drilling	Calc	Req'd	Min Dist
Size	Volume	Sx Cmt	Proposed	Cu Ft	% Cmt	Mud Wt	MASP	BOPE	Hole-Cplg
8 3/4	0.1503	1150	2108	1531	38	8.40	1693	2M	0.55
Pilot hole to be drilled to 6,800 and csg cmt'd in at 5800. NO PLAN OFFERED FOR A PILOT HOLE PLUGBACK.									

4 1/2	Liner w/top @	5600	<u>Design Factors</u>				<u>LINER</u>		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	Weight	
"A"	11.60	HCP 110	BUTT	3.63	2.34	3.44	5,309	61,588	
"B"							0	0	
"C"							0	0	
"D"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	5,309 61,588	
A	Segment	Design	Factors	would be:	5.96	2.78	if it were a vertical wellbore.		
<u>The cement volume(s) proposed may achieve a top</u>					0	<u>feet from surface.</u>			
Hole	Annular	Proposed	CuFt Cmt	Min	Excess	Drilling	Calc	Req'd	Min Dist
Size	Volume	Sx Cmt	Proposed	Cu Ft	% Cmt	Mud Wt	MASP	BOPE	Hole-Cplg
6 1/8	0.0942			1090	Packer	9.30			0.56
5858 KOP, 90 curve 12/100ft, 6708 EOC, 10,909MTD = 6,435VTD. Submitted wellbore diagram liner settings do NOT agree w/10pt drilling plan (Lnr top). Liner not to be cmt'd, using a Peak pkrs & ports compeltion system.									