Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBS OCD

NOV 05 2013

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

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.

5. Lease Serial No. NM-92199

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. **Copperline 29 State Com 1H**

2. Name of Operator Caza Operating, LLC

9. API Well No. **30-025-41313**

3a. Address 200 N. Loraine, Suite 1550, Midland,Tx 79701

3b. Phone No. *(include area code)* 432 682 7424

10. Field and Pool or Exploratory Area Antelope Ridge-Bone Spring

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* 330 FNL & 1980 FWL, Sec 29, T23S, R34E

11. County or Parish, State Lea, New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☒ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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.)

Caza Operating, LLC request permission to alter the subject well's intermediate casing. The casing design that is attached far exceeds the design factors on both burst & collapse.

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

Title Operations Manager

Signature Richard L Wright

Date 8-13-2013

APPROVED
OCT 31 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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, 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)

NOV 07 2013

Well name: **W.Copperline 29 State Com # 1H**

Operator: **Caza Operating, LLC**

String type: **Intermediate Casing**

Design parameters:			**Minimum design factors:**		**Environment:**		
Collapse			**Collapse:**		H2S considered?	No	
Mud weight:	10.00	ppg	DF	1.200	Surface temperature:	75.00	°F
Design is based on evacuated pipe.					Bottom hole temperature:	106	°F
					Temperature gradient:	0.60	°F/100ft
					Minimum section length:	450	ft
			Burst:		Minimum Drift:	8.750	in
			DF	1.12	Cement top:	Surface	
Burst							
Max anticipated surface pressure:	2,667.90	psi					
Internal gradient:	0.12	psi/ft	**Tension:**		Non-directional string.		
Calculated BHP	3,278.10	psi	8 Rd STC:	1.80	(J)		
			8 Rd LTC:	1.80	(J)		
Annular backup:	4.00	ppg	Buttress:	1.60	(J)		
			Premium:	1.50	(J)		
			Body yield:	1.60	(B) **Re subsequent strings:**		
					Next setting depth:	11,480	ft
			Tension is based on buoyed weight.		Next mud weight:	9.200	ppg
			Neutral pt: 4,328.60 ft		Next setting BHP:	5,487	psi
					Fracture mud wt:	12.000	ppg
					Fracture depth:	5,300	ft
					Injection pressure	3,304	psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)
2	3900	9.625	40.00	J-55	LT&C	3900	3900	8.75
1	1185	9.625	40.00	HCK-55	LT&C	5085	5085	8.75

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	2026	2552	1.259	2668	3950	1.48	173.1	520	3.00 J
1	2642	4230	1.601	2326	3950	1.70	17.1	630	36.74 B

Wright

Date: August 7,2013

Midland, Texas

Remarks:

Collapse is based on a vertical depth of 5085 ft, a mud weight of 10 ppg The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.