Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.
NMNM113944

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
COTTONWOOD 29-32 FED COM WCA 9H

2. Name of Operator
CHISHOLM ENERGY OPERATING LLC
Contact: JENNIFER ELROD
Mail: jelrod@chisholmenergy.com

9. API Well No.
30-015-44919-00-X1

3a. Address
801 CHERRY STREET
FORT WORTH, TX 76012

3b. Phone No. (include area code)
Ph: 817-953-3728

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 29 T26S R26E 100FNL 1205FWL
32.020229 N Lat, 104.319679 W Lon

11. County or Parish, State
EDDY COUNTY, NM

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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original A PD
	☐ 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.

SUNDRY TO UPDATE INTERMEDIATE CASING
CHANGE SET DEPTH
FROM: 5350'
TO: 1650'

CHANGE WEIGHT
FROM: 40#
TO: 36#

INTERMEDIATE CEMENT PROGRAM

LEAD: 12.7 ppg, 2.19 yield, Class C, 430 sxs, TOC surface

Carlsbad Field Office
OCD Artesia RECEIVED

MAY 07 2018

DISTRICT II-ARTESIA O.C.D.

All previous COA still apply. JS

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #413137 verified by the BLM Well Information System
For CHISHOLM ENERGY OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by ZOTA STEVENS on 05/02/2018 (18ZS0114SE)

Name *(Printed/Typed)* JENNIFER ELROD — Title SENIOR REGULATORY TECH

Signature (Electronic Submission) — Date 05/02/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS — Title PETROLEUM ENGINEER — Date 05/02/2018

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 Carlsbad

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RWS 5-8-18

Additional data for EC transaction #413137 that would not fit on the form

32. Additional remarks, continued

TAIL: 14.8 ppg, .35 yield, Class C, 200 sxs, TOC 1200'
*150 % Excess for Lead, 100% Excess for Tail

263505D SUNDRY COTTONWOOD 29-32 FED COM WCA 9H 30025 NMNM113944
CHISHOLM ENERGY 12-55 413137 05022018 ZS

13 3/8	surface csg in a		17 1/2	inch hole.		Design Factors		SURFACE	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	48.00		J 55	ST&C	21.48	3.94	3.04	420	20,160
"B"								0	0
w/8.4#/g mud, 30min Sfc Csg Test psig:	1,476			Tail Cmt	does	circ to sfc.		Totals:	420	20,160

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	484	639	346	84	8.60	417	2M	1.56

9 5/8	casing inside the		13 3/8			Design Factors		INTERMEDIATE	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	40.00		J 55	LT&C	7.88	3.29	0.73	1,650	66,000
"B"								0	0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	1,650	66,000

The cement volume(s) are intended to achieve a top of 0 ft from surface or a 420 overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.3132	630	1212	562	116	9.10	3631	5M	0.81

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 2.39, b, c, d
All > 0.70, OK.

5 1/2	casing inside the		9 5/8			Design Factors		PRODUCTION	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	Weight
"A"	20.00		P 110	BUTT	4.02	2.17	2.35	7,572	151,440
"B"	20.00		P 110	BUTT	7.81	1.85	2.35	7,359	147,180
w/8.4#/g mud, 30min Sfc Csg Test psig:	1,666						Totals:	14,931	298,620
B would be:					79.74	2.06	if it were a vertical wellbore.		

No Pilot Hole Planned	MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity°	MEOC
	14931	7974	7974	7572	91	11	8427

The cement volume(s) are intended to achieve a top of 1450 ft from surface or a 200 overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
8 3/4	0.2526	2201	3706	3412	9	13.00			1.35