

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*Lease Serial No.  
NM113944

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHISHOLM ENERGY OPERATING, LLC

Contact: BETTIE WATSON

Email: bettie@watsonreg.com

8. Well Name and No.

COTTONWOOD 29-32 FEDERAL COM WCB 4

3a. Address

801 CHERRY ST., SUITE 1200 - UNIT 20  
FORT WORTH, TX 76102

3b. Phone No. (include area code)

Ph: 972-979-0132

10. Field and Pool or Exploratory Area  
WILDCAT; BONE SPRINGS

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

Sec 29 T26S R26E NENE 100FNL 1240FEL

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☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other  
Change to Original A  
PD

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 recompleat 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.

A. Change of Well Name from: Cottonwood 29-32 Fed COM 4H - 317878  
to: COTTONWOOD 29-32 FED COM WCB 4H 320858

B. Change of SHL from: 150' FNL & 1270' FEL (Plat attached)

C. Change of FIELD/POOL FROM: WILDCAT; BONE SPRINGS  
TO: 98220 PURPLE SAGE WOLFCAMP

D. Change to the below listing is: (information sheet attached)

Proposed Depth  
Formation Depths  
Change Pilot Hole

2/28/2018: Engineering review completed by m Hague

NRS

AB

2-28-18

USF

Existing COAs

MAR 08 2018

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

Electronic Submission #384795 verified by the BLM Well Information System  
For CHISHOLM ENERGY OPERATING, LLC, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/20/2017 ()

Name (Printed/Typed) BETTIE WATSON

Title AGENT

Signature

(Electronic Submission)

Date

08/15/2017

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

*[Signature]*

Title

HF-M-LM

Date

8/30/2018

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

CFD

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)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

NSP Required.  
RUP 3-8-18.

**Additional data for EC transaction #384795 that would not fit on the form**

**32. Additional remarks, continued**

Intermediate & Production Casing Design  
Update Intermediate Cement Design  
Update Production Cement Design - REMOVE DV tool in production string  
Mud Program

26. Eddy NM

Well Name: Cottonwood 29-32 Federal Com

Well Number: 4H

28: a) Change Well Name

From: Cottonwood 29-32 Federal Com 4H

To: Cottonwood 29-32 Fed Com WCB 4H

b) Move SHL

From: 150' FNL and 1270' FEL

To: 100' FNL and 1240' FEL

c) Change Formation

From: Bone Spring

To: Wolfcamp

d) Proposed Depth

From: 6,800' TVD; 13,572' MD

To: 9,440' TVD; 16,705' MD

e) Formation Depths

FORMATION	MD, ft	TVD, ft	TVDSS, ft	LITHOLOGY	RES OBJ/CONTENTS
Castile		50	3400	Anhy & Salt	
Delaware Mtn Gr		1790	1660	SS, SLTST, & SH	
Bone Spring		5290	-1840	LS & SH	
1st Bone Spring SS		6155	-2705	SS, SLTST, & SH	
2nd Bone Spring SS		6690	-3240	SS, SLTST, & SH	
3rd Bone Spring LS		7130	-3680	LS, SS, & SH	
3rd Bone Spring SS		7925	-4475	SS, SLTST, & SH	
Wolfcamp		8265	-4815	SLTST, LS, & SH	
Wolfcamp "B"		8940	-5490	SS & SH	WC "B" SH, O & G
Wolfcamp "C"		9400	-5950	LS & SH	

f) Cancel Pilot Hole

g) Intermediate and Production Casing Design

Hole Size	Casing Interval		Csg. Size	Wt. (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
12.25"	0	5350	9.625"	40	J-55	LTC	1.36	1.39	2.50
8.75"	0	16705	5.5"	17	P-110	BTC	1.49	2.12	4.32
<u>Intermediate</u>									
Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:							10.2	ppg
Collapse	A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:							10.2	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:							10.2	ppg
<u>Production</u>									
Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:							10.5	ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:							10.5	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:							10.5	ppg

h) Update Intermediate Cement Design

Intermediate	Sacks	Yield (cuft/sk)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1312	2.31	12.0	568	High-Yield Class H Blend + LCM + Defoamer + Sodium Metasilicate
Tail	162	1.21	14.4	134	Class H 50:50 Poz + Fluid Loss Additive + Dispersant

i) Update Production Cement Design- REMOVE DV tool in production string

Production	Sacks	Yield (cuft/sk)	Weight (ppg)	Cubic Feet	Cement Blend
Tail	3345	1.15	15.8	3846	Premium Class H + Retarder + Defoamer + Dispersant + Fluid Loss Agent + Suspension Agent

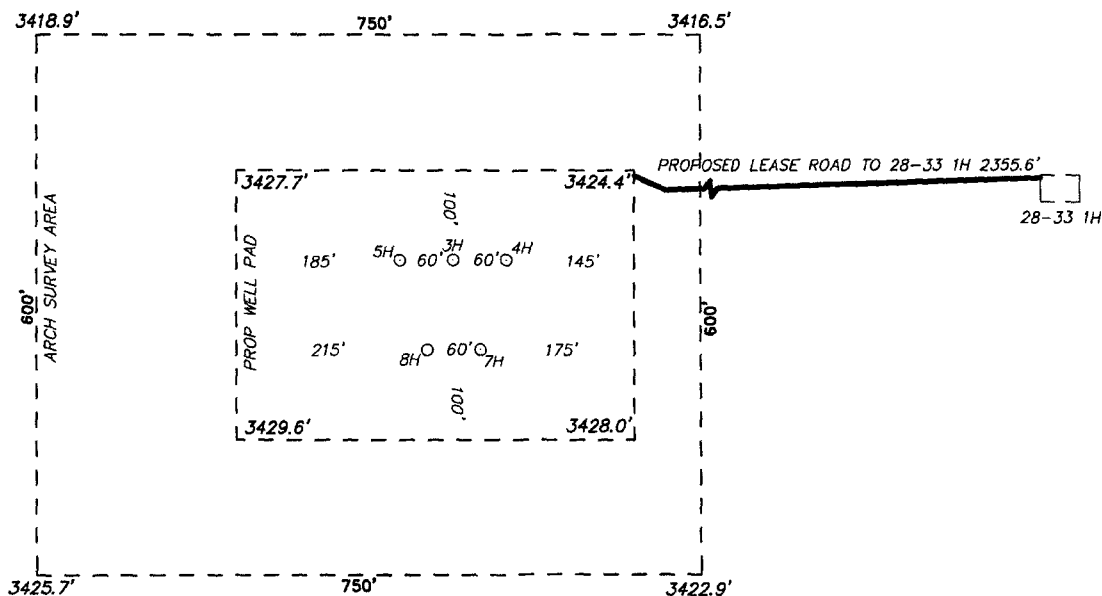
\*25% Excess

\*\*Top of cement = 4350' MD (1000' Inside Intermediate Casing)

j) Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	420	FW Gel	8.4-8.8	34-36	N/C
420	5300	Brine	10.0-10.2	28-30	N/C
5300	15660	Oil Base	10.0-10.5	35-40	N/C

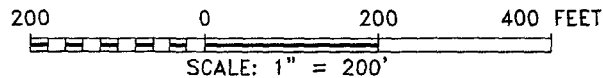
SECTION 29, TOWNSHIP 26 SOUTH, RANGE 26 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



CHISHOLM ENERGY OPERATING, LLC  
COTTONWOOD 29-32 FED COM WCB 4H  
ELEV. - 3421'

Lat - N 32.02022817°  
Long - W 104.31042797°  
NAD83 - N 371098.7  
E 548436.3  
(NAD-83)

WHITE CITY, NM IS ±11 MILES TO THE NORTHWEST OF LOCATION.



Directions to Location:

FROM THE INTERSECTION OF GYPSUM & DILLAHUNTY  
ROAD GO SOUTH ON, ON DILLAHUNTY GO SOUTH 1.2  
MILES TO LEASE ROAD, CONTINUE 1.2 MILES  
SOUTHERLY TO PROPOSED LEASE ROAD.



P.O. Box 1786 (575) 393-7316 -- Office  
focused on excellence 1120 N. West County Rd. (575) 392-2206 -- Fax  
in the oilfield Hobbs, New Mexico 88241 basin-surveys.com

**CHISHOLM ENERGY OPERATING, LLC**

REF: COTTONWOOD 29-32 FED COM WCB 4H / WELL PAD TOPO

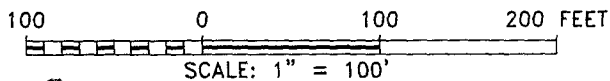
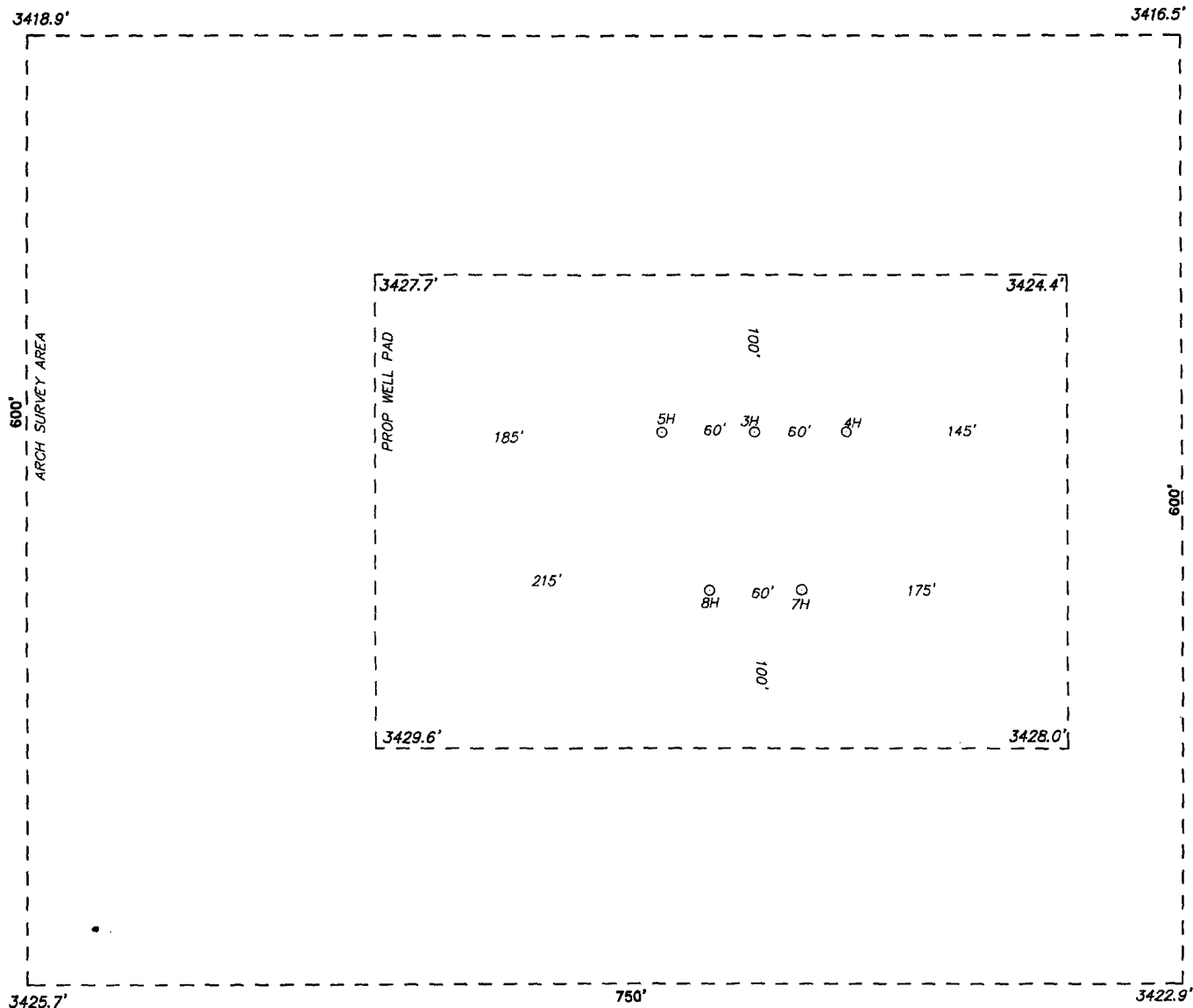
THE COTTONWOOD 29-32 FED COM WCB 4H LOCATED 100' FROM

THE NORTH LINE AND 1240' FROM THE EAST LINE OF

SECTION 29, TOWNSHIP 26 SOUTH, RANGE 26 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

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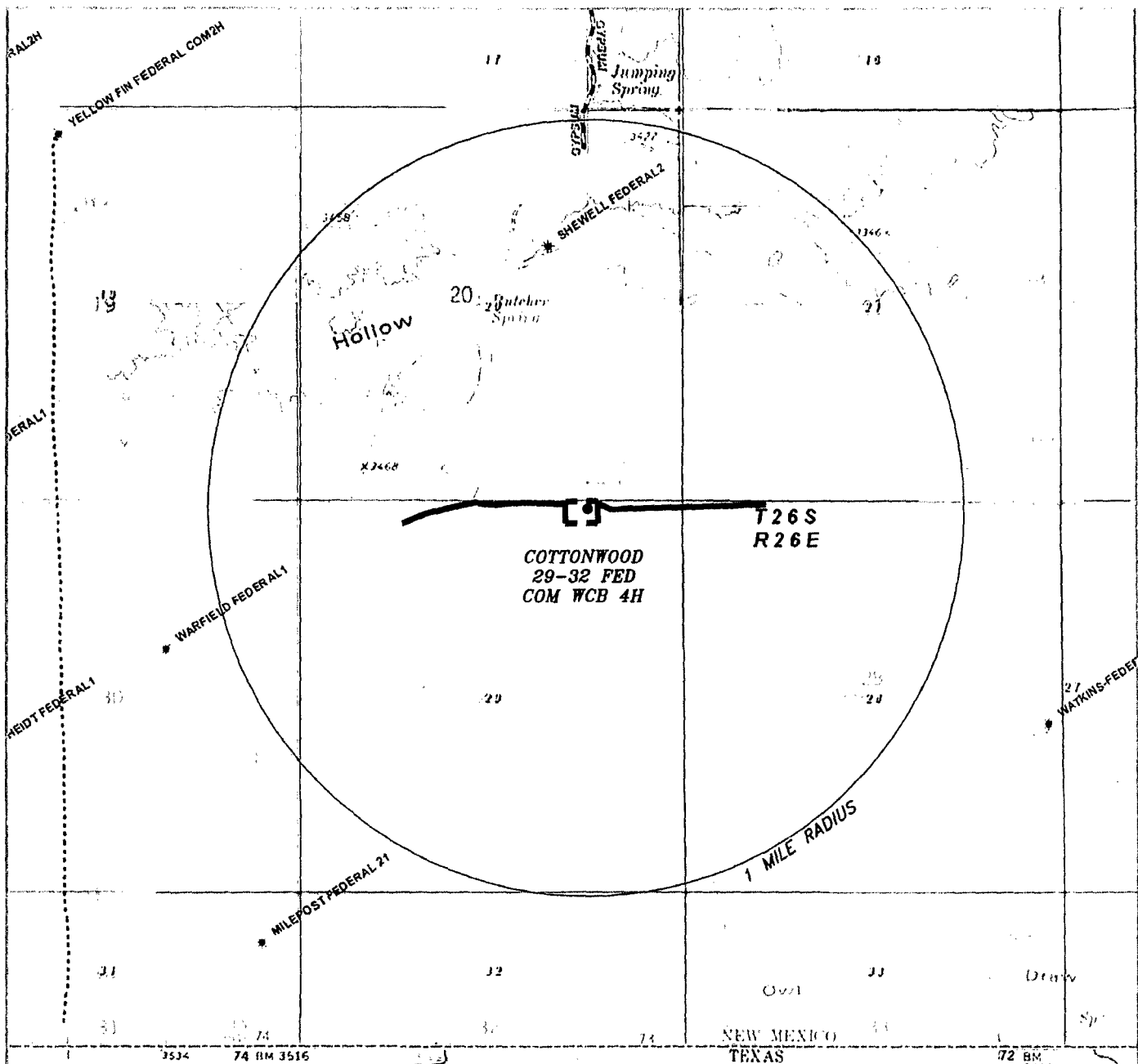
**basin**  
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## COTTONWOOD 29-32 FED COM WCB 4H

Located 100' FNL and 1240' FEL  
 Section 29, Township 26 South, Range 26 East,  
 N.M.P.M., Eddy County, New Mexico.

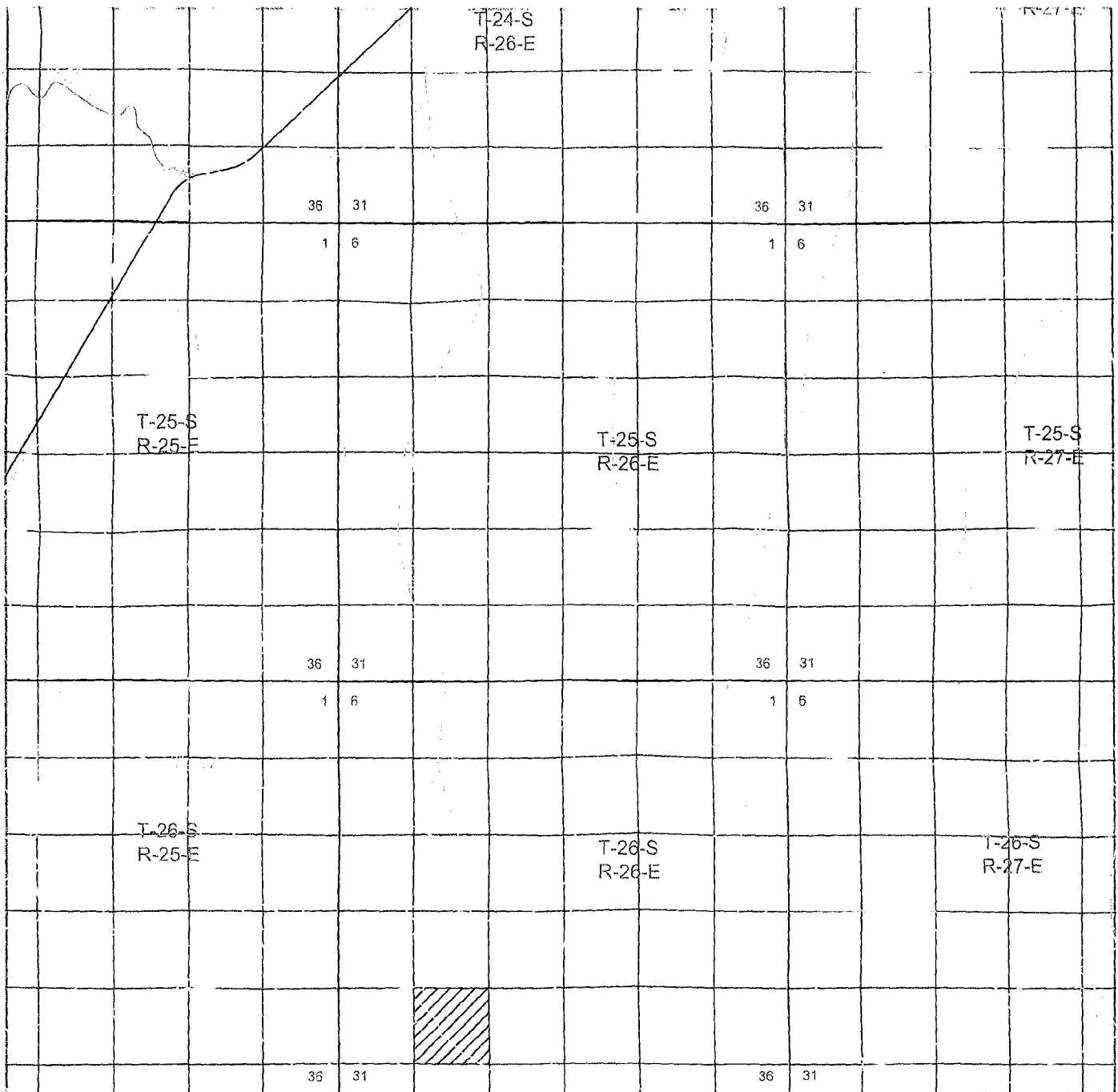
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0' 1000' 2000' 3000' 4000'  
 SCALE: 1" = 2000'  
 W.O. Number: KJG 33115  
 Survey Date: 07-11-2017  
 YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - FEE LAND

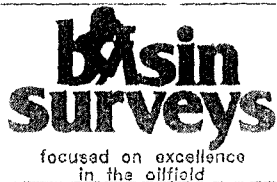
**CHISHOLM**  
**ENERGY**  
**OPERATING, LLC**





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 N.M.P.M., Eddy County, New Mexico.

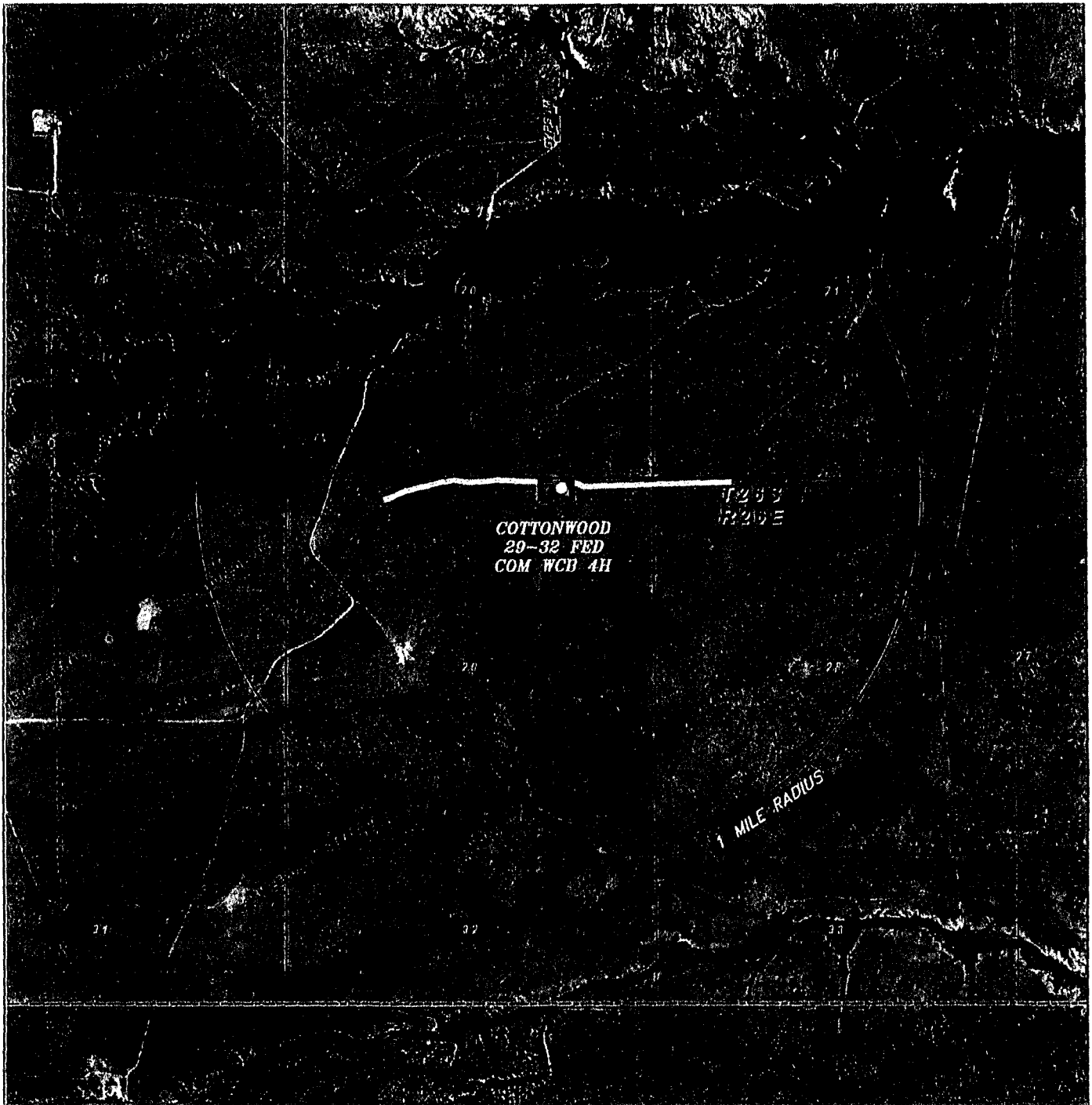


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0 1 MI 2 MI 3 MI 4 MI  
 SCALE: 1" = 2 MILES  
 W.O. Number: KJG 33115  
 Survey Date: 07-11-2017  
 YELLOW TINT -- USA LAND  
 BLUE TINT -- STATE LAND  
 NATURAL COLOR -- FEE LAND



**CHISHOLM  
 ENERGY  
 OPERATING, LLC**



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**CHISHOLM**  
**ENERGY**  
**OPERATING, LLC**

**PECOS DISTRICT  
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Chisolm Energy Operating, LLC
LEASE NO.:	NMNM113944
WELL NAME & NO.:	Cottonwood 29-32 Fed Com WCB 4H
SURFACE HOLE FOOTAGE:	100 'N & 1240'/E
BOTTOM HOLE FOOTAGE:	330'/S & 660'/E
LOCATION:	Section 29, T.26 S., R.26 E., NMPM
COUNTY:	Eddy County, New Mexico

**All previous COAs still apply except the following:**

**A. CASING**

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

**MHH 02282018**