

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS *Carlsbad Field Office*
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. **OCB Artesia**

Lease Serial No. **1113944**

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
COTTONWOOD 29-32 FEDERAL COM WCB 4

9. API Well No.
30-015-43705

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

11. County or Parish, State
EDDY COUNTY, NM

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**
Mail: **bettie@watsonreg.com**

3a. Address **801 CHERRY ST., SUITE 1200 - UNIT 20
FORT WORTH, TX 76102**

3b. Phone No. (include area code)
Ph: **972-979-0132**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 29 T26S R26E NENE 100FNL 1240FEL

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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A PD
	<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 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.

- 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 **2128/2018: Engineering review completed by m Hague**
Formation Depths
Change Pilot Hole
NRS AB 2-28-18 USF Existing COA'S

ATTACHED FOR
CONDITIONS OF APPROVAL
CONSERVATION
ARTESIA DISTRICT
MAR 08 2018
RECEIVED

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 **AFM-LEM** 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.

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
Intermediate									
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
Production									
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

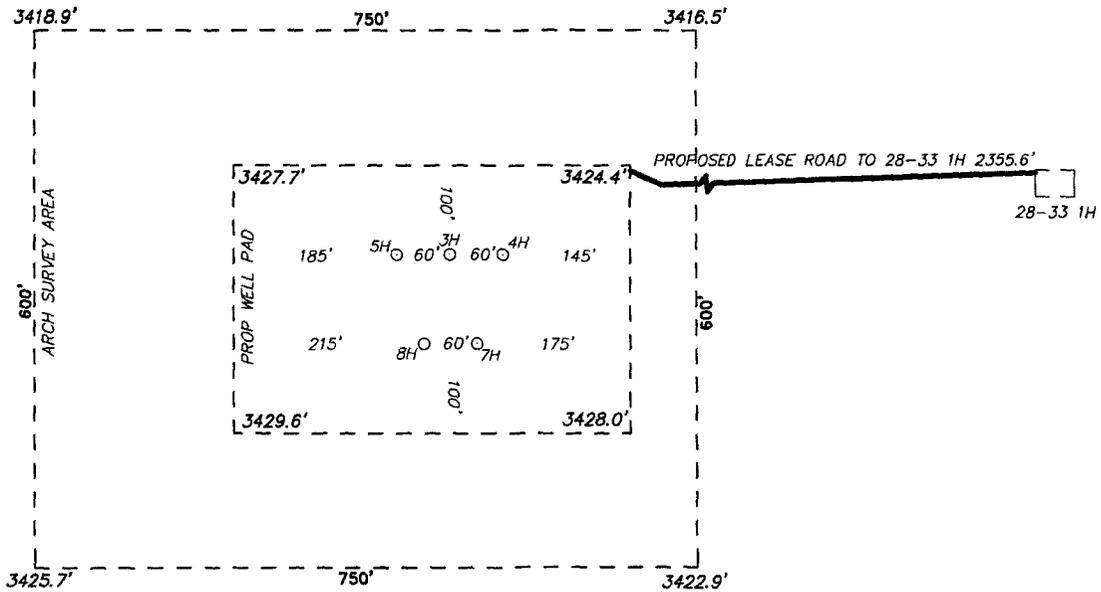
*25% Excess

**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

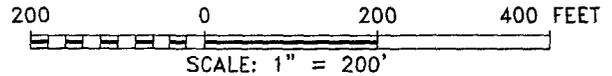
SECTION 29, TOWNSHIP 26 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



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

Lat - N 32.02022817'
Long - W 104.31042797'
NMSPC - 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

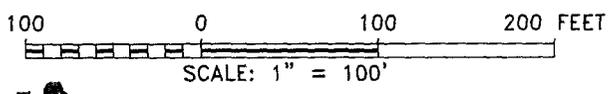
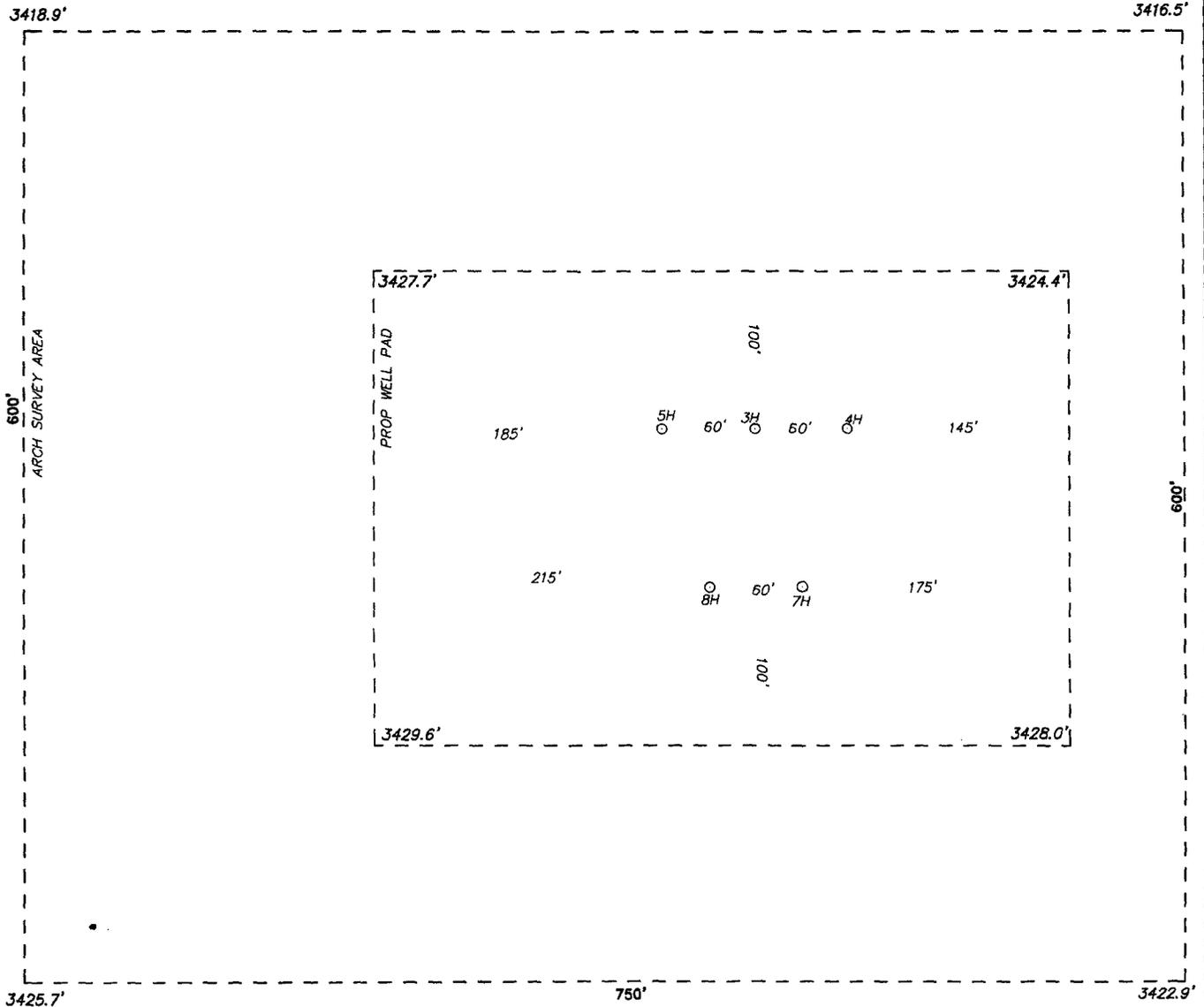
THE COTTONWOOD 29-32 FED COM WCB 4H LOCATED 100' FROM

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.

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

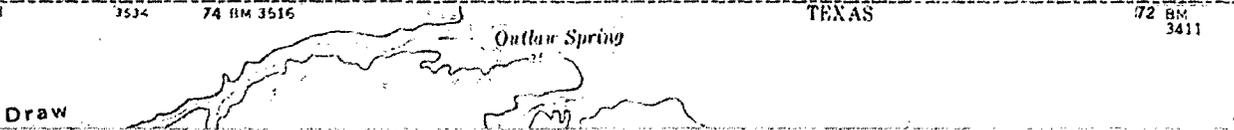
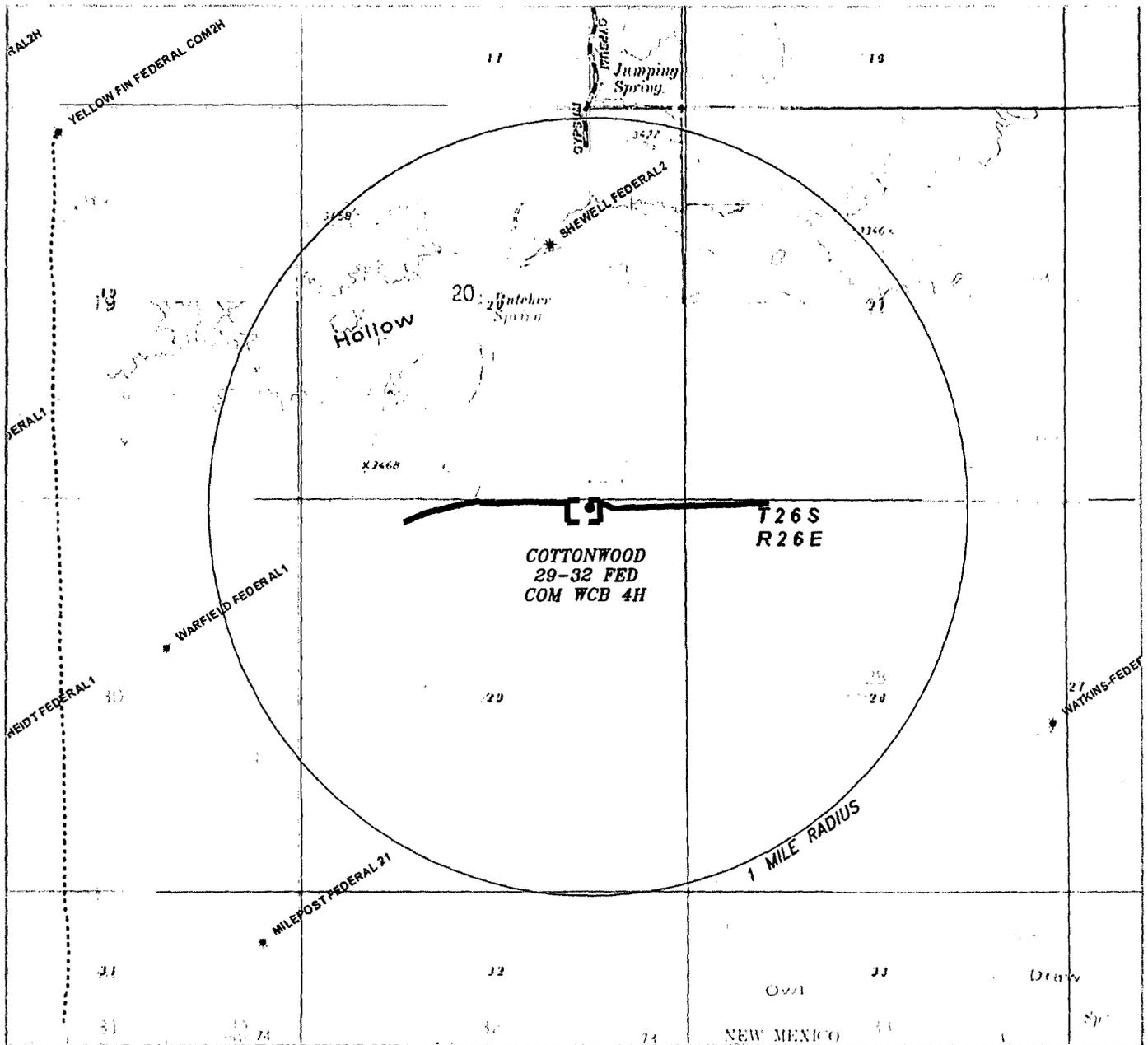


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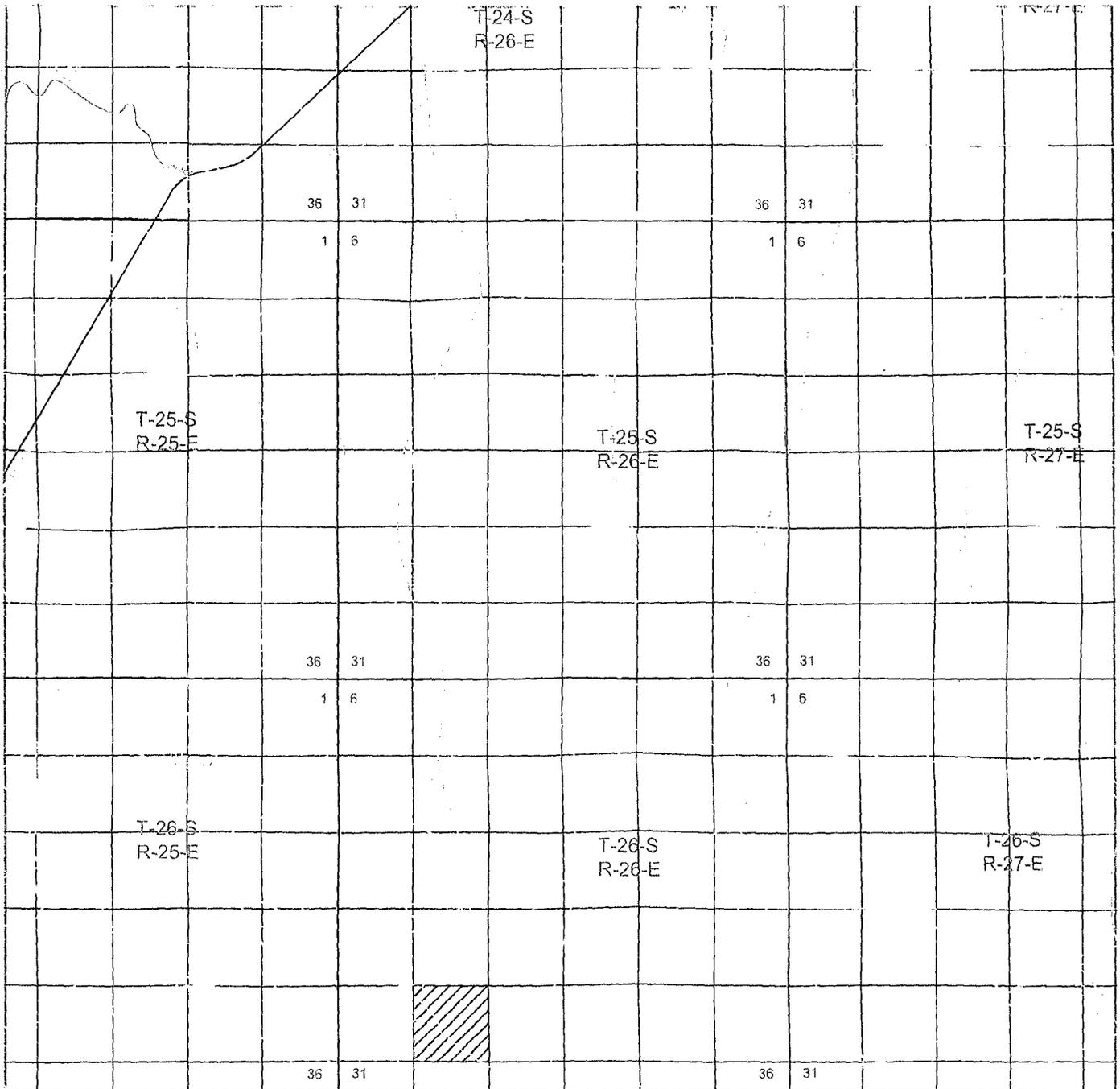
COTTONWOOD 29-32 FED COM WCB 4H
 Located 100' FNL and 1240' FEL
 Section 29, Township 26 South, Range 26 East,
 N.M.P.M., Eddy County, New Mexico.



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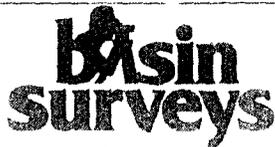
0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number: KJG 33115				
Survey Date: 07-11-2017				
YELLOW TINT - USA LAND				
BLUE TINT - STATE LAND				
NATURAL COLOR - FEE LAND				

**CHISHOLM
 ENERGY
 OPERATING, LLC**



COTTONWOOD 29-32 FED COM WCB 4H

Located 100' FNL and 1240' FEL
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0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

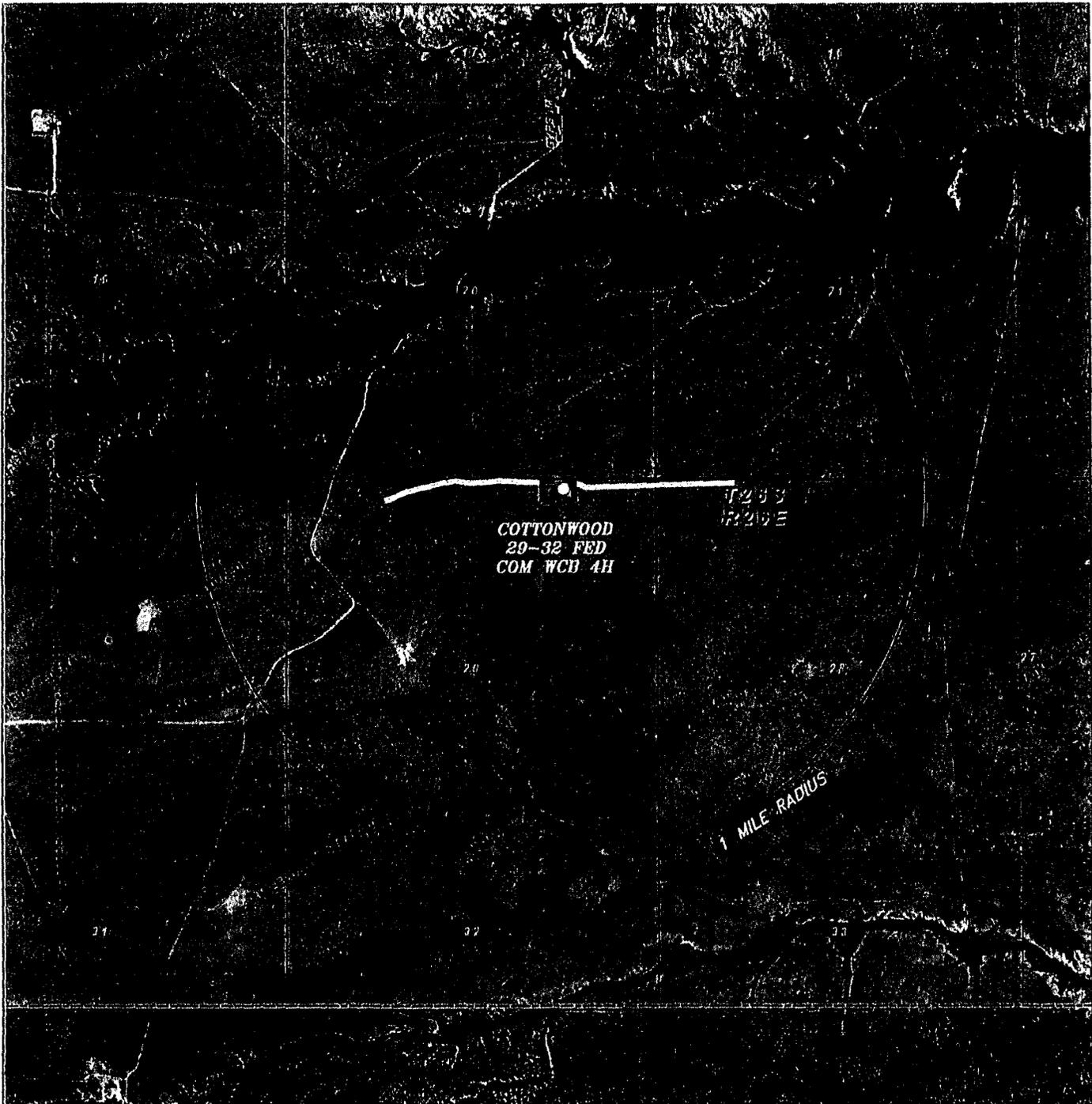
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YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

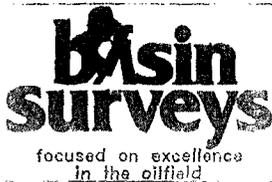


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**CHISHOLM
 ENERGY
 OPERATING, LLC**

**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