

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.*

5. Lease Serial No.  
NMNM113944  
6. If Indian, Annette 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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. COTTONWOOD 29-32 FEDERAL COM 4H
2. Name of Operator CHISHOLM ENERGY OPERATING, LLC Contact: BETTIE WATSON Mail: bettie@watsonreg.com		9. API Well No. 30-015-43705
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
<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 <input type="checkbox"/> Change to Original APD
	<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 recompleate 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 recompleation 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 <sup>317878</sup>  
to: COTTONWOOD 29-32 FED COM WCB 4H <sup>320858</sup>

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 <sup>2/28/2018: Engineering review completed by m Hague</sup>  
Formation Depths  
Change Pilot Hole

*NRS AB 2-28-18 USF Existing COA's*

BLM OIL CONSERVATION  
ARTESIA DISTRICT  
MAR 05 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 *HF-M-L&M* Date *03/01/2018*

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 \*\***

*RWP 3-6-18  
NSP Required.*

**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,	LITHOLOGY	RES OBJ/CONTENTS
			ft		
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
<b>Intermediate</b>									
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
<b>Production</b>									
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

MAR 05 2017

Submit one copy to appropriate District Office

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (576) 393-6161 Fax: (576) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (576) 748-1289 Fax: (576) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 478-3460 Fax: (505) 478-3482

**OIL CONSERVATION DIVISION**  
1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-015-43705	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 320858	Property Name COTTONWOOD 29-32 FED COM WCB	Well Number 4H
OGRID No. 372137	Operator Name CHISHOLM ENERGY OPERATING, LLC	Elevation 3421'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/SOUTH LINE	FEET from the	East/West Line	County
A	29	26 S	26 E		100	NORTH	1240	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/SOUTH LINE	FEET from the	East/West Line	County
LOT 1	32	26 S	26 E		330	SOUTH	660	EAST	EDDY

Dedicated Acres 223.13	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

**SURFACE LOCATION**  
Lat - N 32.02022817"  
Long - W 104.31042797"  
NMSPC- N 371098.7  
E 548436.3  
(NAD-83)

**PENETRATION POINT**  
Lat - N 32°01'10.55"  
Long - W 104°18'30.79"  
NMSPC- N 370869.2  
E 549017.6  
(NAD-83)

**BOTTOM HOLE LOCATION**  
Lat - N 32.001006082"  
Long - W 104.308443717"  
NMSPC- N 364106.4  
E 549052.9  
(NAD-83)

**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Bettie Watson* 8/15/2017  
Signature Date

Bettie Watson  
Printed Name  
bettie@watsonreg.com  
Email Address

**SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date Surveyed  
Signature & Seal of Professional Surveyor  
7977

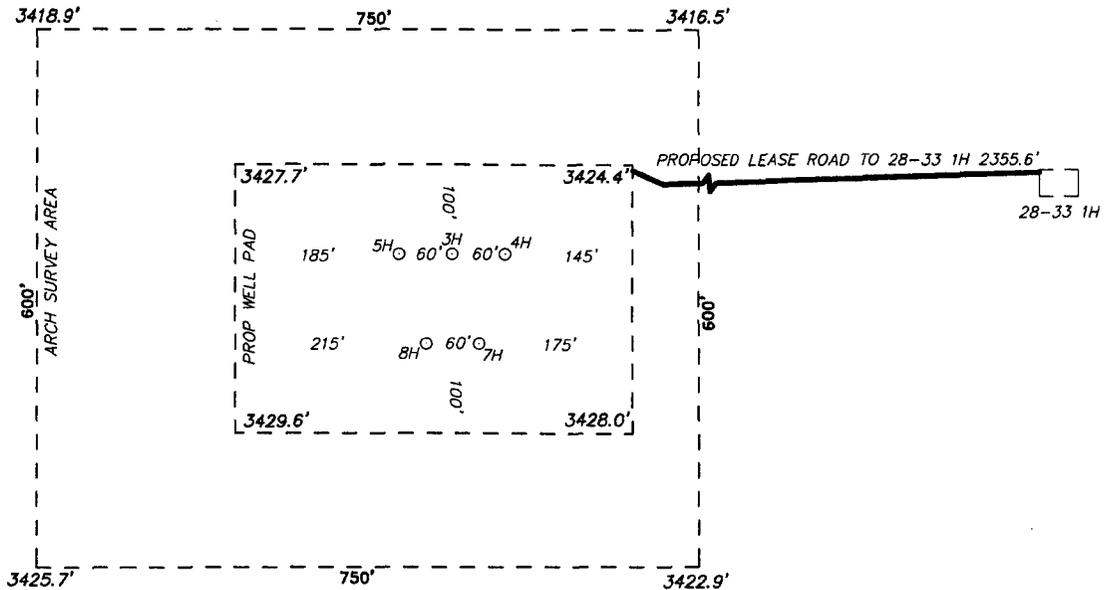
Certificate No. 7977  
Date 8/15/2017

SCALE: 1" = 2000'  
WO Num.: 33115

NSP Required

Rev. 3-6-17

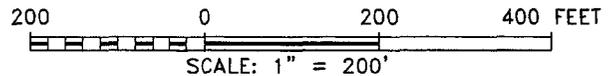
SECTION 29, TOWNSHIP 26 SOUTH, RANGE 26 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



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

Lot - N 32.02022817'  
Long - W 104.31042797'  
NMSPCE- 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.

**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

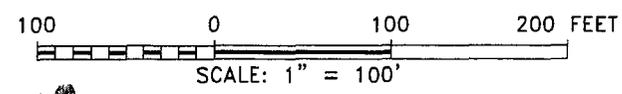
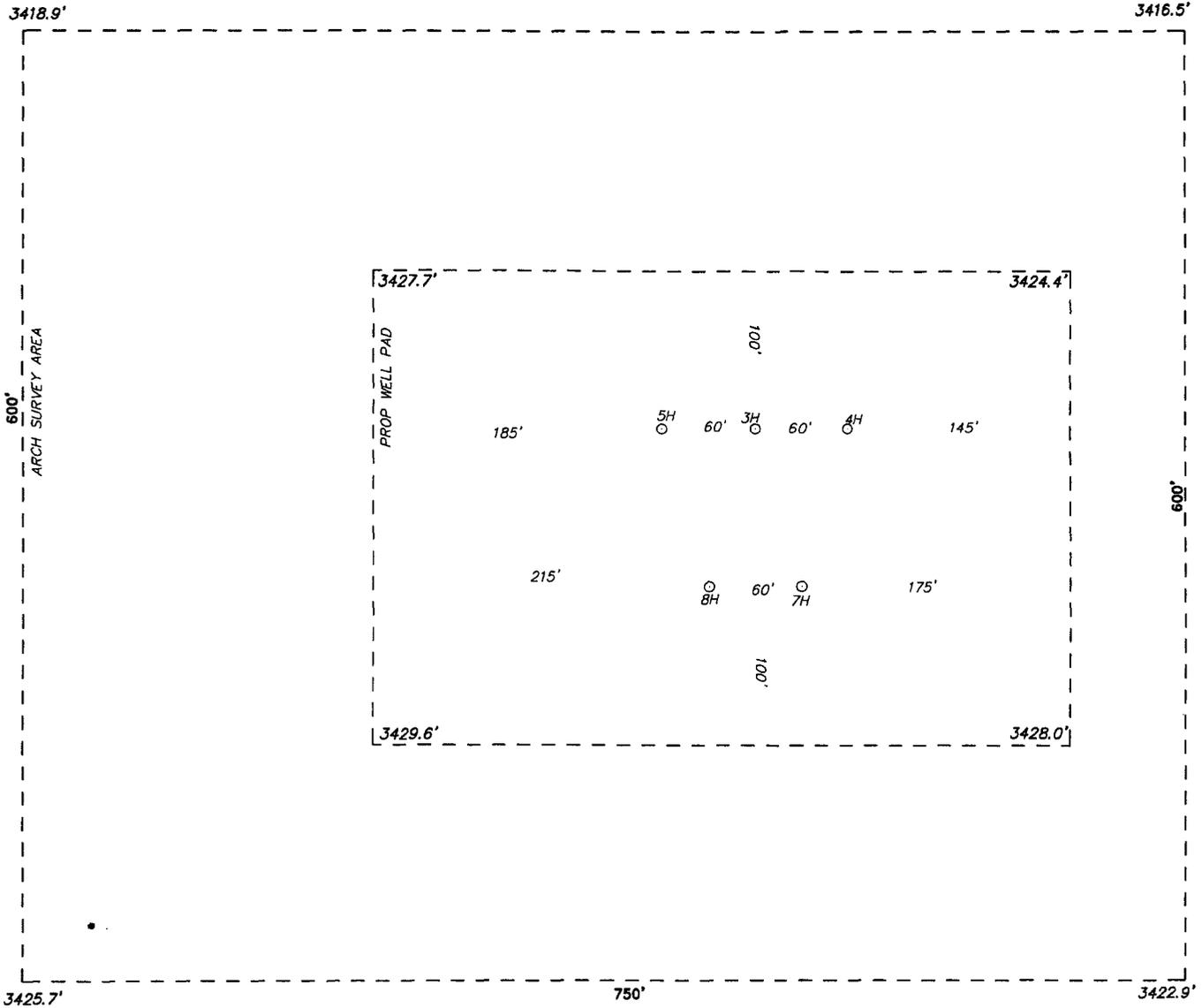
SECTION 29, TOWNSHIP 26 SOUTH, RANGE 26 EAST,

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



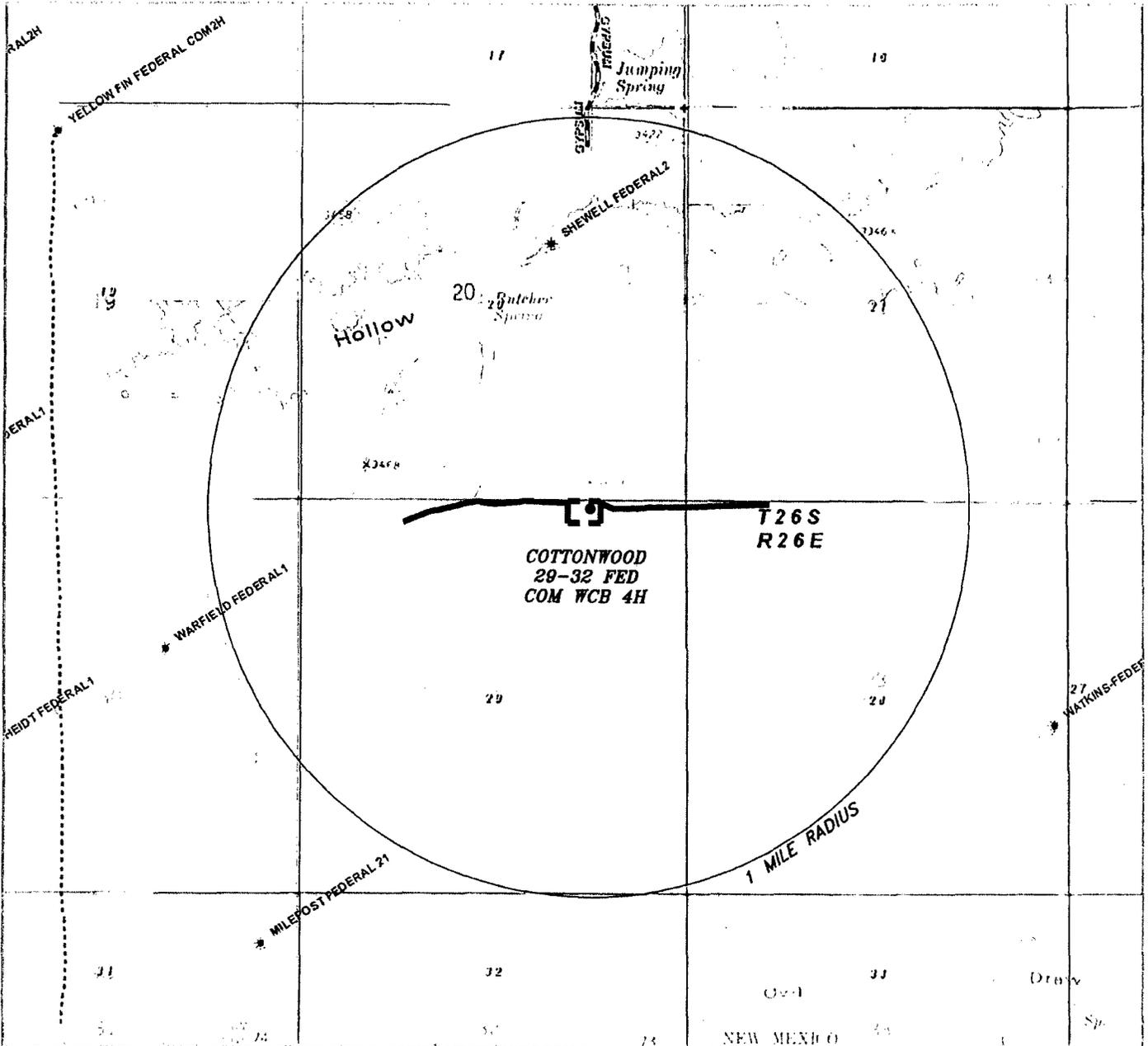
P.O. Box 1788 (575) 393-7310 -- Office  
1120 N. West County Rd. (575) 392-2206 -- Fax  
Hobbs, New Mexico 88241 basin-surveys.com

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



P.O. Box 1786 (575) 393-7316 -- Office  
 1120 N. West County Rd. (575) 392-2206 -- Fax  
 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.



NEW MEXICO  
TEXAS

7534 74 BM 3516 72 BM 3411

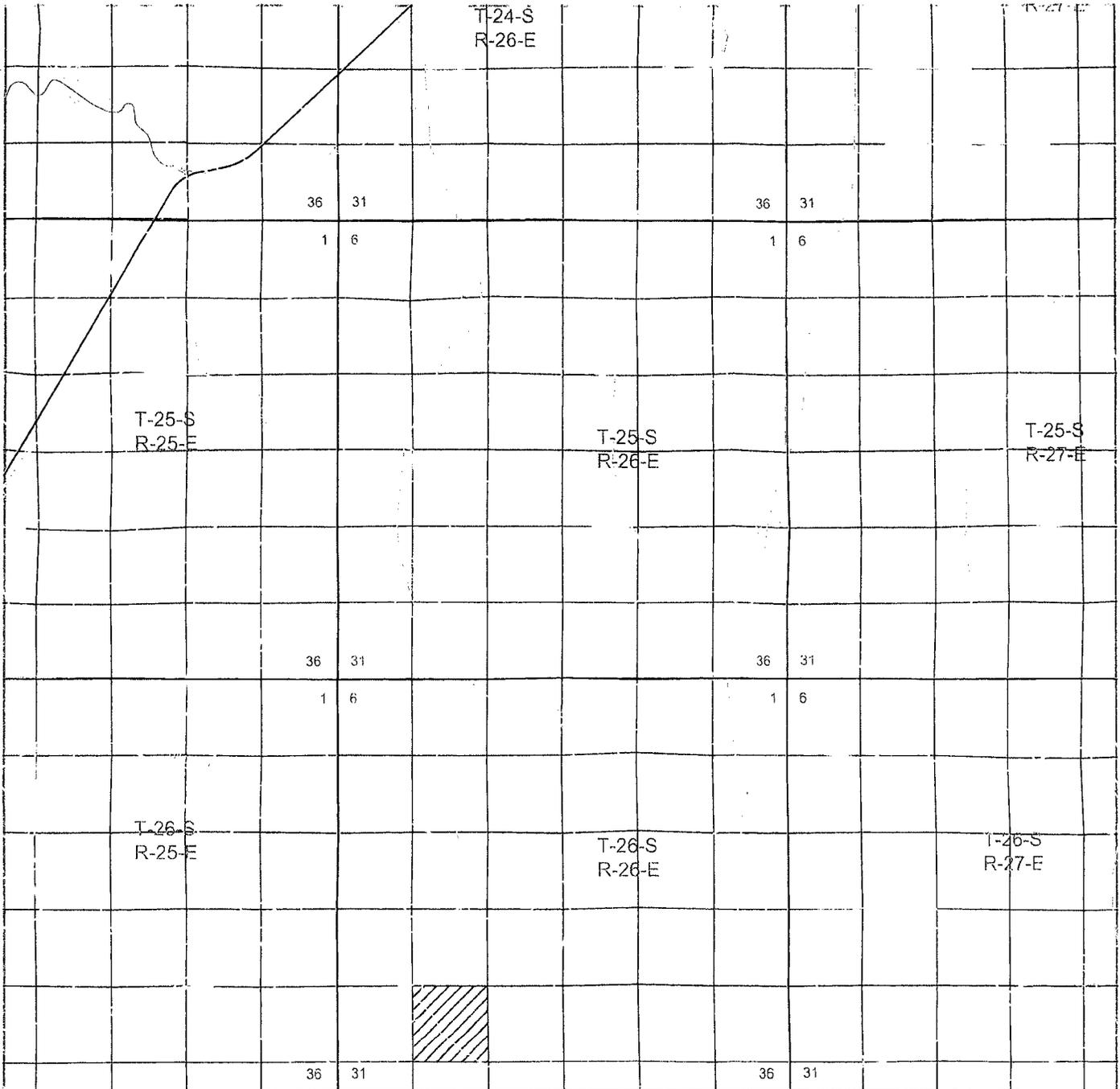
**COTTONWOOD 29-32 FED COM WCB 4H**  
 Located 100' FNL and 1240' FEL  
 Section 29, Township 26 South, Range 26 East,  
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
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 basinsurveys.com

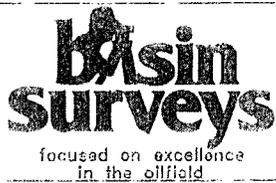
0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number: KJG 33115				
Survey Date: 07-11-2017				
YELLOW TINT USA LAND				
BLUE TINT - STATE LAND				
NATURAL COLOR - FEE LAND				

**CHISHOLM  
 ENERGY  
 OPERATING, LLC**

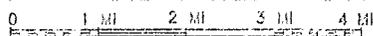


**COTTONWOOD 29-32 FED COM WCB 4H**

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



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 basinsurveys.com



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

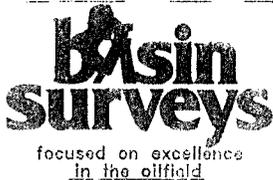


**CHISHOLM  
 ENERGY  
 OPERATING, LLC**



**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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 basinsurveys.com

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**

**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**