

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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 Email: 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	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 recomple 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
Formation Depths
Change Pilot Hole

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

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

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 ()

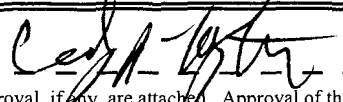
Name (Printed/Typed) BETTIE WATSON

Title AGENT

Signature (Electronic Submission)

Date 08/15/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title CFM-UM	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 CFO

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, 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

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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

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	Joint or Infill	Consolidation Code	Order No.
223.13			

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"
NMSPEC- N 371098.7
E 548436.3
(NAD-83)

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

BOTTOM HOLE LOCATION
Lat - N 32.001006082"
Long - W 104.308443717"
NMSPEC- 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 of Professional Surveyor
Professional Surveyor
7977

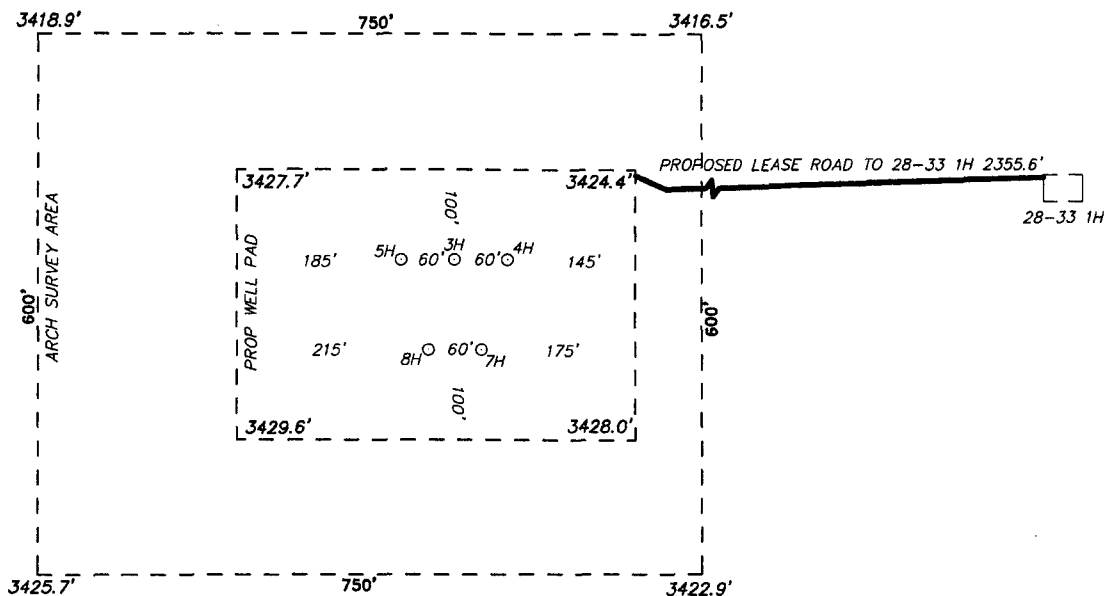
Certificate of Survey
7977

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

NSP Required

Rev. 3-6-18

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



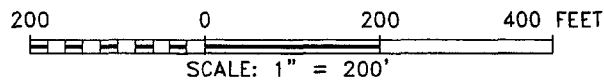
CHISHOLM ENERGY OPERATING, LLC
COTTONWOOD 29-32 FED COM WCB 4H
ELEV. - 3421'

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

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.

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



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,

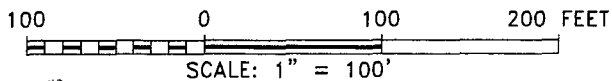
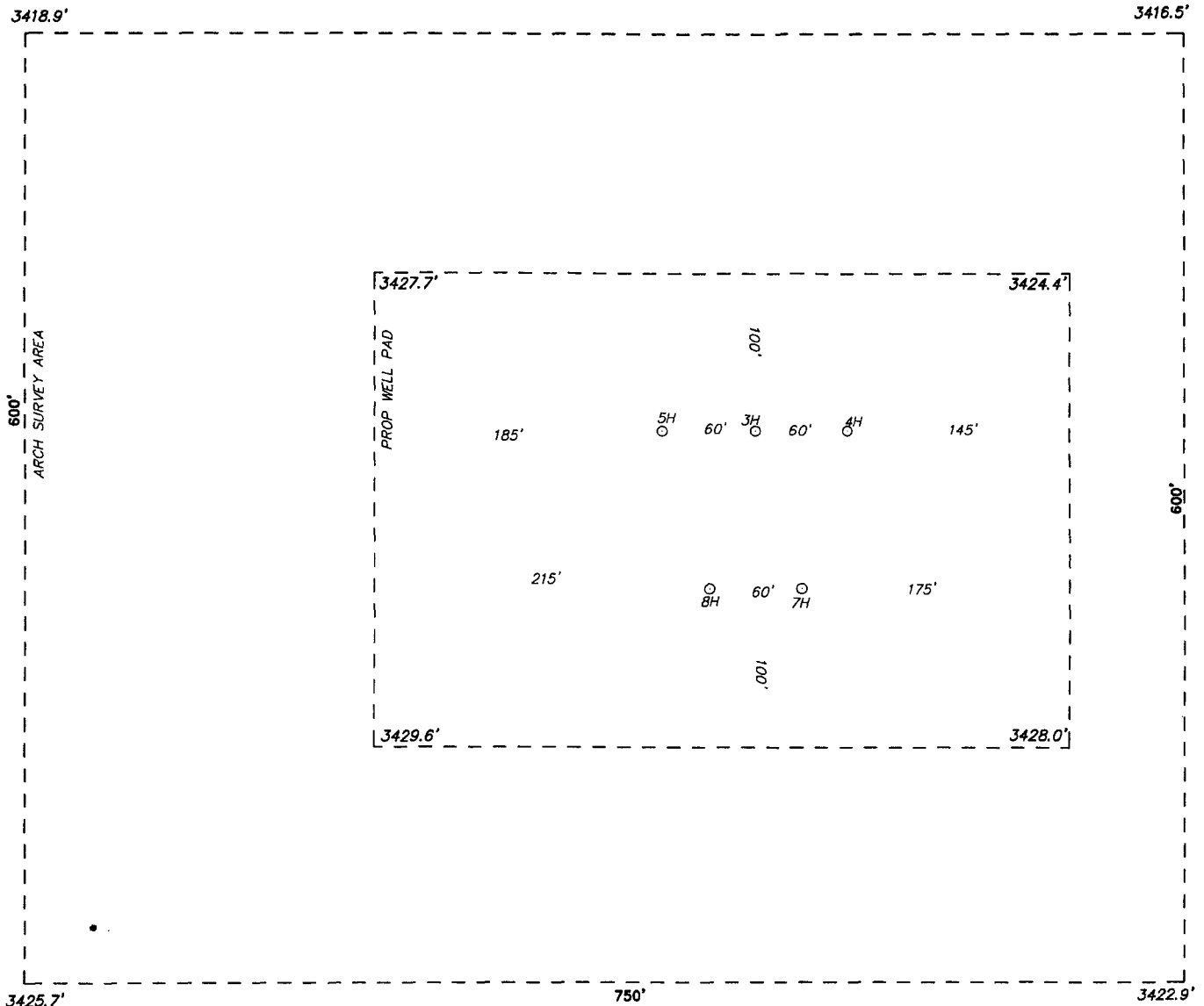
N.M.P.M., EDDY COUNTY, NEW MEXICO.



F.O. Box 1788 (575) 393-7316 -- Office
1120 N. West County Rd. (575) 392-2206 -- Fax
Hobbs, New Mexico 88241 basin-surveys.com

W.O. Number: 33115 Drawn By: K. GOAD Date: 07-24-2017 Survey Date: 07-11-2017 Sheet 1 of 1 Sheets

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

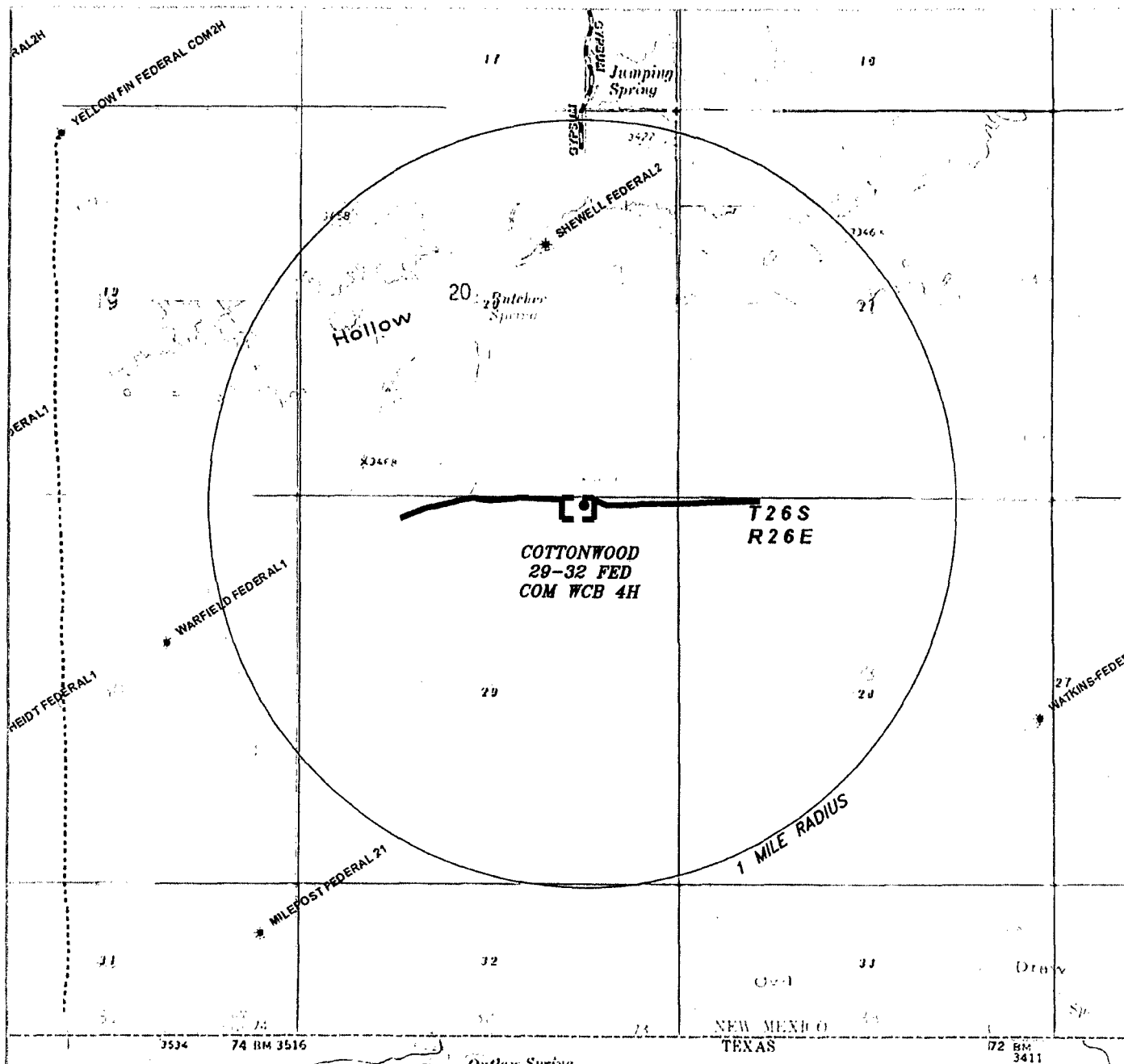


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Hobbs, New Mexico 88241
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basinsurveys.com

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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.



COTTONWOOD 29-32 FED COM WCB 4H

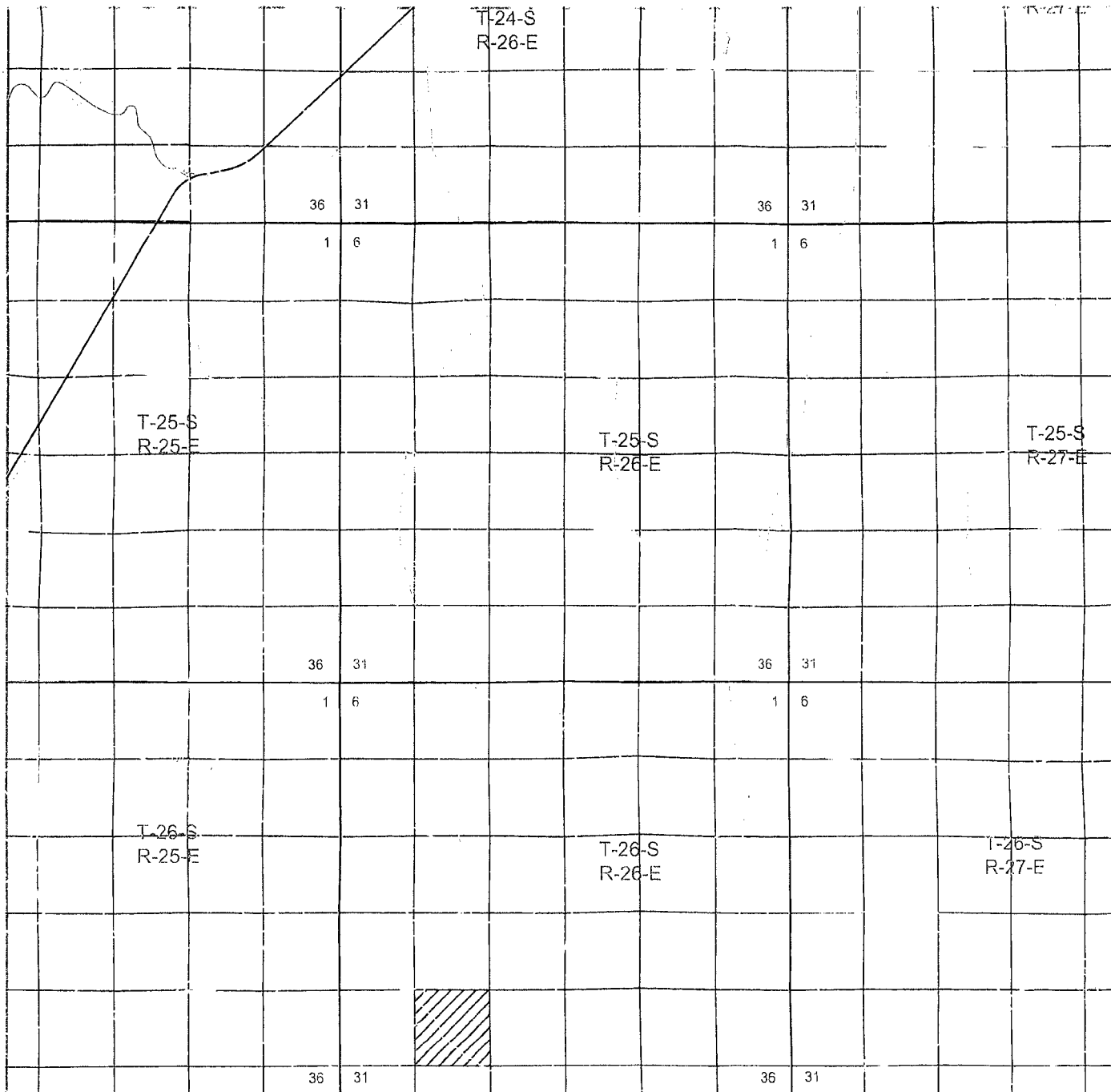
Located 100' FNL and 1240' FEL
 Section 29, Township 26 South, Range 26 East,
 N.M.P.M., Eddy County, New Mexico.

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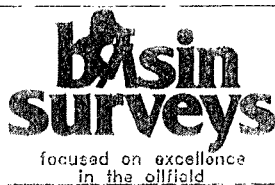
0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'
 W.O. Number: KJG 33115
 Survey Date: 07-11-2017
 YELLOW TINT USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

CHISHOLM
ENERGY
OPERATING, LLC



COTTONWOOD 29-32 FED COM WCB 4H

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

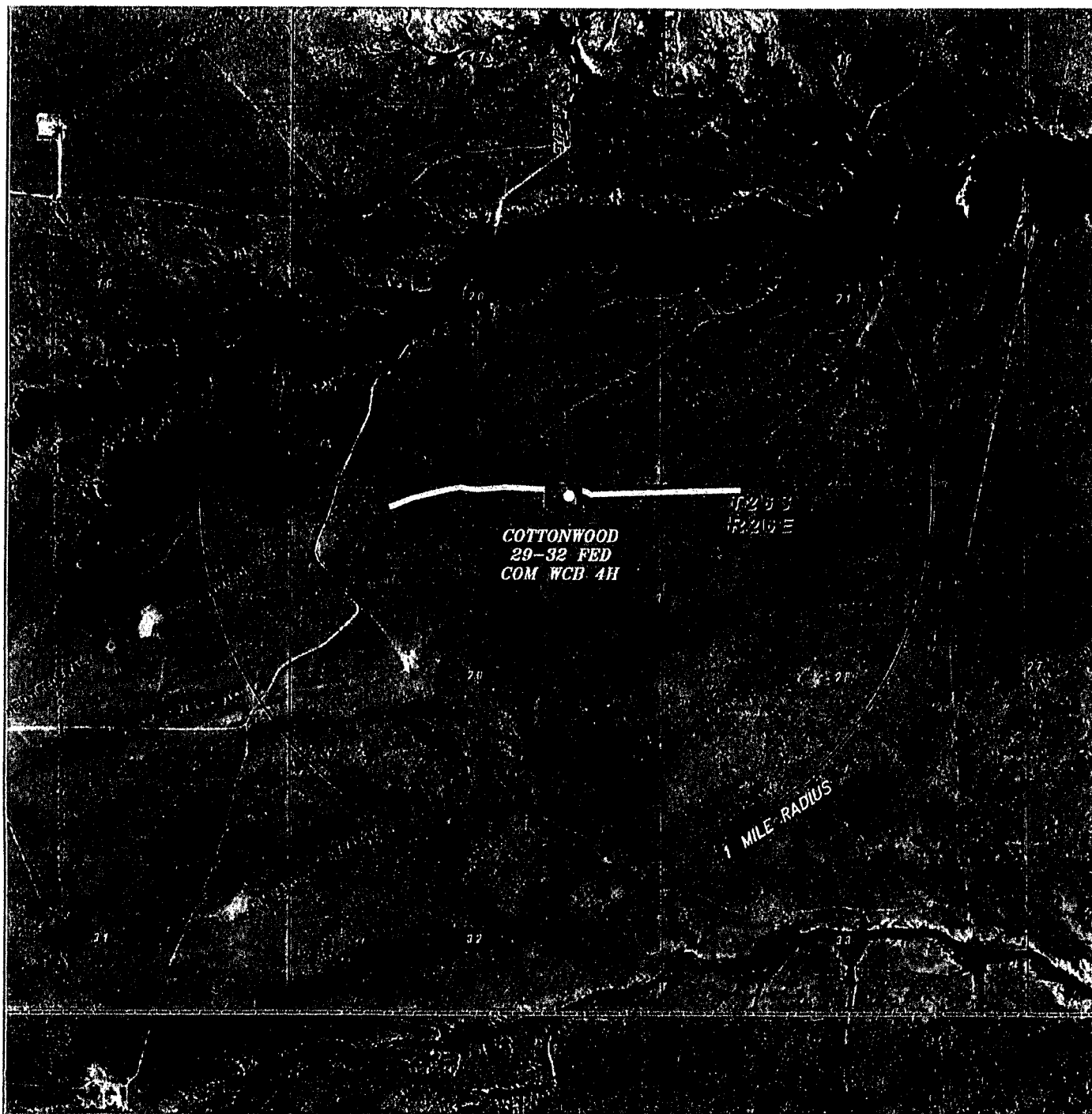


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0 1 MI 2 MI 3 MI 4 MI
SCALE: 1" = 2 MILES
W.O. Number: KJG 33115
Survey Date: 07-11-2017
YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



**CHISHOLM
ENERGY
OPERATING, LLC**



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'
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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