# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELL'S

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

5.	Lease Serial No.	_
	NMNM113944	

SUNDRY NOTICES AND RE	PORIS ON WELDSrtesia
Do not use this form for proposal	ls to drill or to re-enter an 314
abandoned well. Use form 3160-3	

6.	If I	Indian,	Allot	tee or	Tribe	Name

abandoned we	II. Use form 3160-3 (APD	) for such p	proposals.		6. If Indian, Allottee o	r I ribe Name
SUBMIT IN	TRIPLICATE - Other instr	uctions on	page 2		7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well  ☑ Oil Well ☐ Gas Well ☐ Oth					8. Well Name and No. COTTONWOOD 2	28-33 FED COM WCA 4H
<ol><li>Name of Operator CHISHOLM ENERGY OPERA</li></ol>	Contact: J ATING, LEOMail: jelrod@chisl	ENNIFER E	LROD om		9. API Well No. 30-015-43690	
3a. Address 801 CHERRY ST., SUITE 120 FORT WORTH, TX 76102	00 - UNIT 20	3b. Phone No Ph: 817-95	. (include area code) 3-3728		10. Field and Pool or E PURPLE SAGE	Exploratory Area ;WOLFCAMP
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)				11. County or Parish, S	State
Sec 21 T26S R26E Mer NMP 32.021028 N Lat, 104.292403					EDDY COUNTY	, NM
12. CHECK THE AI	PPROPRIATE BOX(ES) T	O INDICA	TE NATURE O	F NOTICI	E, REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Nation of Intent	☐ Acidize	☐ Dee	pen	☐ Produ	ction (Start/Resume)	☐ Water Shut-Off
☑ Notice of Intent	☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Recla	mation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	☐ Recor	nplete	Other
☐ Final Abandonment Notice	☐ Change Plans	Plug	and Abandon	□ Temp	orarily Abandon	Drilling Operations
	☐ Convert to Injection	Plug	Back	☐ Water	Disposal	
determined that the site is ready for fi  **** AMEND INTERMEDIATE DEEPEN INTERMEDIATE CA  UPDATED INTERMEDIATE CA  HOLE SIZE - 12.25" CASING INTERVAL - 0' - 775 CASING SIZE - 9.625" WT. (LBS) - 40 GRADE - L-80HC CONN - BTC SF COLLAPSE - 1.47 SF BURST - 1.46	CASING DESIGN **** ASING CASING DESIGN (DEPTH & O'TVD,MD		E) //-29- r record - NMC		IM OIL CONSERVARTESIA DISTRI NOV 2 9 201 RECEIVED	CT
wellalready				<del></del> -	<del></del>	
14. I hereby certify that the foregoing is	For CHISHOLM ENER Committed to AFMSS for pr	rgy opera	TING, LLC, sent to JENNIFER SANC	o the Carls	sbad   1/06/2017 ()	///
Name (Printed/Typed) JENNIFEF	R ELROD		Title SENIOR	REGULA	TORY TECH	
Signature (Electronic S	Submission)		Date 10/16/20	170001	PAFD FOR R	CORD
	THIS SPACE FOR	2 FEDERA		<del>100</del>		97/\ <i> </i>
	THIS STAGET OF		LOKSIAIL		<del></del>	<del>-                                     </del>
Approved By	· <del></del> -		Title		NON 8 301X	1 par Wh
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to condu	nitable title to those rights in the s act operations thereon.	ubject lease	Office	BUT	REAU OF LAND MARAGI	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a cr statements or representations as to	ime for any pe any matter wi	rson knowingly and thin its jurisdiction	di <b>k</b> fully to 1	nake to any department or a	agency of the United
(Instructions on page 2) ** OPERAT	OR-SUBMITTED ** OP	ERATOR-	SUBMITTED **	OPERA	TOR-SUBMITTED	**

#### Additional data for EC transaction #392026 that would not fit on the form

#### 32. Additional remarks, continued

SF TENSION

UPDATED INTERMEDIATE CEMENT DESIGN LEAD - 2545 SXS, 2.19 YIELD, 12.7 PPG, 5573 CUBIC FEET, HIGH-YIELD CLASS H BLEND + LCM + DEFOAMER + SODIUM METASILICATE

TAIL - 200 SXS, 1.37 YIELD, 14.8 PPG, 266 CUBIC FEET, CLASS H 50:50 POZ + FLUID LOSS ADDITIVE + DISPERSANT

MUD PROGRAM 0-420' - FW GEL, 8.4-8.8 PPG, 34-36 VISCOSITY, N/C WATER LOSS 420-7750' - BRINE/DIESEL EMULSION, 8.8-9.8 PPG, 28-30 VISCOSITY, N/C WATER LOSS 7750 - PILOT HOLE TD - CUT BRINE, 9.8-12.0 PPG, 35-40 VISCOSITY, >10 WATER LOSS 7920-15821' - OIL BASE; 9.0-9.6 PPG, 35-40 VISCOSITY, N/C WATER LOSS

\*\*\*SEE ATTACHMENTS\*\*\*

## 26. Eddy NM

Well Name: Cottonwood 28-33 Fed Com WCA

Well Number: 4H

## 28: a) Intermediate Casing Design (Depth and Grade)

Hole Size	Casing I From	nterval To	Csg. Size	Wt. (Ibs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
12.25"	0	7750	9.625"	40	L-80 HC	втс	1.47	1.46	2.76
Intermed	<u>iate</u>								
Tensio		3 design fa ht of:	ctor with e	ffects of bu	ioyancy wi	th a fluid e	qual to a m	ud 9	0.8 ppg
Collaps			factor with gradient c	n 1/3 TVD ii of:	nternal eva	cuation an	d collapse	force 9	.8 ppg
Burst		L25 design mud gradi		n full extern	nal evacuat	ion and bu	rst force ed	qual 9	.8 ppg

## i) Update Intermediate Cement Design

Intermediate	Sacks	Yield (cuft/sk)	Weight (ppg)	Cubic Feet	Cement Blend
					High-Yield Class H Blend + LCM
					+ Defoamer + Sodium
Lead	2545	2.19	12.7	5573	Metasilicate
					Class H 50:50 Poz + Fluid Loss
Tail	200	1.37	14.8	266	Additive + Dispersant

#### k) Mud Program

De	epth	Tuno	Weight	Viscosity	
From	То	Type	(ppg)	Viscosity	Water Loss
0	420	FW Gel	8.4-8.8	34-36	N/C
420	7750	Brine/Diesel Emulsion	8.8-9.8	28-30	N/C
7750	Pilot Hole TD	Cut Brine	9.8-12.0	35-40	>10
7920	15821	Oil Base	9.0-9.6	35-40	N/C

Casing Program: Cottonwood WCA/WCB (13.3/8" x 9.5/8" x 5.1/2")

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Casing Setting Setting Depth (ft) Depth (ft) MD TVD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Thread Condition Mud Weight Burst (psi) (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Tension (klbs)	Burst SF Collapse Collapse Tension Air Weight Bouyant Tension SF (1.125) (Klbs) (Ibs) (Ibs) (Ibs)	Bouyant Weight (lbs)	Tension Sf (1.8)
Surface																	
17.5"	٥,	420,	420,	13 3	/8" 48.0	H-40	STC	New	8.8	1730	9.00	740	3.85	322,000	1730 9.00 740 3.85 322,000 20,160 17,449	17,449	18.45
Intermediate															i		
12.25"	0,	7,750'	7,750' 7,750'	.8/5 6	40	40 L-80 HC BTC	BTC	New	8.6	5750 1.46 3870	1.46	3870	1.47	727,000	1.47 727,000 310,000 263,576 2.76	263,576	2.76
Production																	
8.75"	,0	16,000' 9,500'	9,500'	5 1/2"	20	20 P-110 LTC	LTC	New	10.5	10640	2.05	7480	1.44	445,000	10640 2.05 7480 1.44 445,000 190,000 159,514 2.79	159,514	2.79

Casing Design Criteria and Casing Loading Assumptions:	
Surface	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.8 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	8.8 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.8 ppg
Intermediate	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.8 ppg
Collapse A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	9.8 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.8 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