

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Artesia

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, 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: JENNIFER ELROD
Mail: jelrod@chisholmenergy.com

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

3b. Phone No. (include area code)
Ph: 817-953-3728

8. Well Name and No.
COTTONWOOD 28-33 FED 2BS 1H

9. API Well No.
30-015-43691

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T26S R26E Mer NMP NWNW 150FNL 1270FWL
32.020086 N Lat, 104.302329 W Lon

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 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 checked="" 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"/> 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 recomplate 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.

SET TUBING AND GAS LIFT INSTALLATION SUNDRY
10/16/2017-INSTALLED GAS LIFT SYSTEM (DESIGN ATTACHED)
SET 2 7/8" 6.5" TBG @ 7100'

BC 11-8-17
Accepted for record - NMOCD

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 07 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #392561 verified by the BLM Well Information System For CHISHOLM ENERGY OPERATING, LLC, sent to the Carlsbad Office committed to AFMS for processing by JENNIFER SANCHEZ on 10/23/2017 ()

Name (Printed/Typed) JENNIFER ELROD Title SENIOR REGULATORY TECH

Signature (Electronic Submission) Date 10/19/2017

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____

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 _____

OCT 22 2017
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

Weatherford

Weatherford Gas-Lift Systems Pressure Valve Gas Lift Design Calculations

Company: Chisholm Energy Holdings LLC
 Field: New Mexico
 Well: 1H
 Lease: Cottonwood Federal 28-33

Date: 10-10-2017
 Designed By: B.Jirasek
 Design For: Paul Martinez

#	TVD (ft)	MD (ft)	TV (ft)	TCF	Port Size (in)	R	DPC (psi)	PT (psi)	PSC (psi)	PVC (psi)	OP (psi)	PSO (psi)	PD @60F (psi)	PTRO (psi)
10	1750	1750	105	0.912	12	0.115	45	766	1057	1102	1145	1100	1005	1135
9	2450	2452	110	0.903	12	0.115	64	831	1019	1083	1115	1052	978	1105
8	3000	3002	113	0.898	12	0.115	79	826	997	1075	1108	1029	965	1090
7	3550	3552	116	0.892	12	0.115	94	822	978	1072	1104	1010	956	1080
6	4100	4103	119	0.887	12	0.115	109	817	958	1068	1100	991	947	1070
5	4650	4653	121	0.883	12	0.115	125	824	938	1062	1093	969	939	1060
4	5175	5179	123	0.880	12	0.115	139	819	917	1056	1087	947	930	1050
3	5700	5704	125	0.878	12	0.115	155	825	894	1049	1078	923	921	1040
2	6200	6206	126	0.876	12	0.115	169	820	872	1041	1070	900	912	1030
1	6700	6758			16	Orifice		800			1034			

TV : Temperature of Valve

TCF : Temperature correction Factor

R : Ap/Ab

DPC : Casing Press. at Depth - Casing Press. at Surface

PT : Tubing Pressure

PSC : Closing Pressure at Surface

PVC : Closing Pressure at Depth [PVC = PSC + DPC]

OP : Opening Pressure at Depth [OP = (PVC - PTR) / (1 - R)]

PSO : Surface Opening Pressure [PSO = OP - DPC]

PD AT F : Bellows Pressure at Base Temperature [PD AT F = TCF X PVC]

PTRO : Test Rack Opening Pressure [PTRO = (PD AT F) / (1 - R)]

Shipping Date:

Ship Via: WFT Truck

Shipping Ticket:

Setup By:

Final Test By:

File: Chisholm Energy Holdings LLC Cottonwood 28-33 1H.val

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DEPARTMENT OF THE INTERIOR
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NMOCD
Artesia

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5. Lease Serial No.
NMLC029395A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
TONY FEDERAL 3

9. API Well No.
30-015-30470

10. Field and Pool or Exploratory Area
[96831]CEDAR LAKE; GLOR

11. County or Parish, State
EDDY CO COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
APACHE CORPORATION
Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com

3a. Address
303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-818-1801

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 18 T17S R31E NWSW 2310FSL 330FWL

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
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<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 Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
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Apache performed the following: WO procedures

SC 11-8-17
Accepted for record - NMOCD

07/13/17 JSA/SFTY MTG, MIRU, L/T, NO GOOD, PUMP STUCK, WORK TO GET OFF RHR, POH W/RODS, 50#/CSG, BLED DN & KILL, NU BOP, TAC NOT SET, RIH, TAG @ PBTD/5154', TALLY OUT OF HOLE W/145 JTS, 2' SUB, 2 JTS, TAC, 14 JTS, BJ, SN, HOLE IN BJ, SI, SDFN

07/14/17 JSA/SFTY MTG, 40#, BLED DN & KILL, RU RENEGADE WL, RIH W/3 1/8" PERFORATING GUNS, CORRELATE TO LOGS, PERF YESO AS FOLLOWS: 4600', 4627', 4652', 4656', 4670', 4681' @ 3 SPF 120 DEGREE PHASING W/GEO FRAC - IQ CHARGES @ .4" EHD (18 HOLES), POH W/GUNS, RD WL, SI,

07/18/17 JSA/SFTY MTG, 50#, BLED DN & KILL, RU TBG TSTRS, PU PKR & TST TBG IN HOLE, RD TBG TSTRS, LD 15 JTS, ND BOP, SET PKR @ 4579/145 JTS, NU WELLHD, RIH W/RODS, POH & LD RODS, RDMO

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 07 2017

14. Thereby certify that the foregoing is true and correct.

Electronic Submission #392753 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 10/23/2017 ()

Name (Printed/Typed) EMILY FOLLIS Title REGULATORY ANALYST

Signature (Electronic Submission) Date 10/23/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

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Office _____

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(Instructions on page 2)

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

Additional data for EC transaction #392753 that would not fit on the form

32. Additional remarks, continued

07/19/17 EMPTY FRAC TANKS DUE TO CONTAMINATED CHEMICALS, REFILL W/196 BBLs FRESH
08/03/17 JSA/SFTY MTG, RU REPLACEMENT PUMP TRK, TEST LINES @ 6000#, CONT PUMP ACID BALL JOB AS
FOLLOWS: 96 BBLs 15% HCL @ 15BPM/2250#, DROP (5) 7/8" RCN BALL SEALERS, 714 BBLs 15% GELLED ACID @
16 BPM/3300#, DROPPING 5 BALLS EACH 60 BBLs, NO BALL ACTION, FLUSH W/60 BBLs FRESH, ISP/VAC, SI, RD
ELITE, SDFN

08/12/17 JSA/SFTY MTG, 40#, BLED DN & KILL, ND BOP, SET TAC, NU WELL HD, PU & RIH W/PUMP & RODS,
L/T @ 500#, GOOD PUMP ACTION, HANG ON, RDMO