

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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. **NMNM97874**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **CIMAREX ENERGY COMPANY OF COLORADO**

3a. Address **600 N MARIENFELD STREET SUITE 600, MIDL** 3b. Phone No. (include area code) **(432) 571-7800**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 31/T16S/R29E/NMP

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

8. Well Name and No. **BEAR BRYANT 31 FEDERAL/1**

9. API Well No. **3001534906**

10. Field and Pool or Exploratory Area
E EMPIRE/E EMPIRE

11. Country or Parish, State
EDDY/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"/> 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.)

1) SET 4-1/2" CIBP @ 6,700'; CIRC. WELL W/ M.L.F.; PRES. TEST 4-1/2" CIBP X CSG.; PUMP (25) SXS. CLASS "C" CMT. @ 6,700'-6,495' (4-1/2" LNR. TOP). 2) PUMP (25) SXS. CLASS "C" CMT. @ 6,120'-5,960' (T/ABO); WOC X TAG TOC. 3) PUMP (25) SXS. CLASS "C" CMT. @ 4,208'-4,068' (T/GLOR.). 4) PUMP (25) SXS. CLASS "C" CMT. @ 3,165'-3,035' (9-5/8" CSG. SHOE); WOC X TAG TOC. 5) CIRC. TO SURF. (105) SXS. CLASS "C" CMT. @ 863'-3' (T/YATES, 13-3/8" CSG. SHOE). 6) DIG OUT X CUT OFF WELLHEAD 3' B.G.L.; WELD ON STEEL PLATE TO CSGS. X INSTALL DRY HOLE MARKER.
DURING THIS PROCEDURE WE PLAN TO USE THE CLOSED-LOOP SYSTEM W/ A STEEL TANK AND HAUL CONTENTS TO THE REQUIRED DISPOSAL, PER OCD RULE 19.15.17.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
DAVID EYLER / Ph: (432) 687-3033

Signature _____ Title **Agent**

Signature _____ Date **01/07/2022**

Accepted for record – NMOCD gc 2/8/2022 **THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by
LONG VO / Ph: (575) 234-5972 / Approved

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.

Petroleum Engineer _____ Date **02/07/2022**

Office **CARLSBAD**

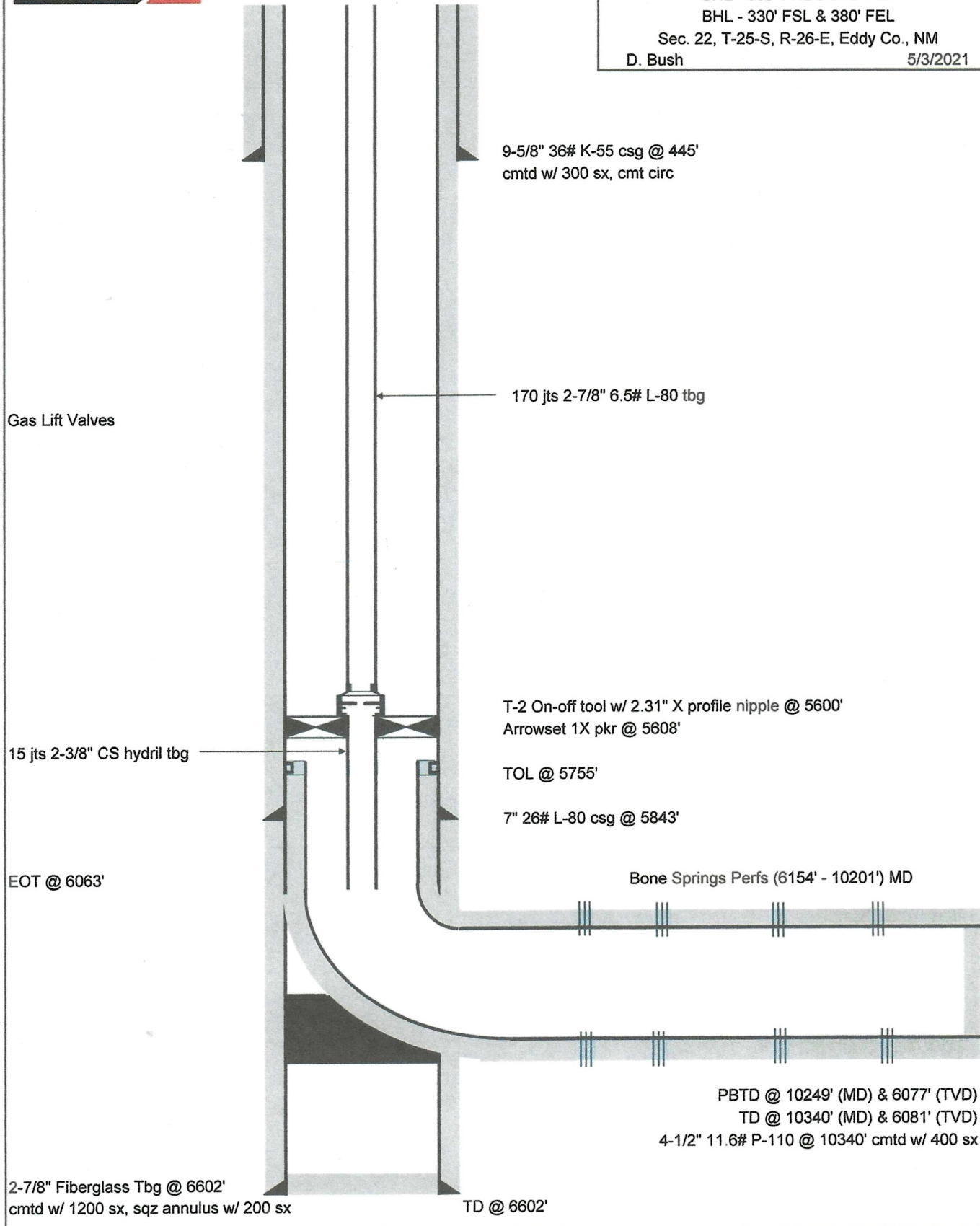
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



KB - 17' above GL

Cimarex Energy Co. of Colorado
 Cottonwood Draw 22 Federal Com #5H
 SHL - 530' FNL & 210' FEL
 BHL - 330' FSL & 380' FEL
 Sec. 22, T-25-S, R-26-E, Eddy Co., NM
 D. Bush 5/3/2021



Printed 5/3/2021



Cimarex Energy Co. of Colorado
 Bear Bryant 31 Fed 1
 1850' FSL & 990' FWL
 Sec. 31, T-16-S, R-29-E, Eddy Co., NM
 D. Pearson 11/4/2015
 Updated 8/30/16 by S.Hanford

30-015-34906

13-3/8", 48# H-40 csg @ 207'
 cmtd w/ 425 sx

CIRC. (105) SXS @ 863'-3'

- T/YATES - 813'
- T/QN. - 1,405'
- T/S.A. - 2,478'
- T/GAOR. - 4,138'
- T/ABO - 6,040'
- T/WCMP. - 7,135'

M.L.F.

Pump (25) SXS @ 3,165' - 3,035' - TAG

9-5/8", 40# K-55 csg @ 3100'
 cmtd w/ 968 sx

4188' to 4046'

M.L.F.

Pump (25) SXS @ ~~4,208' - 4,068'~~

6090' to 5929'

M.L.F.

Pump (25) SXS @ ~~6,120' - 5,960'~~ - TAG

M.L.F.

³⁵ Pump (25) SXS @ ~~6,700' - 6,495'~~ 6814' to 6495'

KOP @ 6864'

SET 4-1/2" CIRSP @ ~~6,700'~~

6814'

4-1/2", 11.6# Inr @ 6545' - 10338'
 cmtd w/ 310 sx

5-1/2", 17# P-110 csg @ 10,445'
 cmtd w/ 1150 sx

DAE 01/07/22

High Core

PLUG AND ABANDONMENT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Company of Colorado
LEASE NO.:	NMNM97874
WELL NAME & NO.:	Bear Bryant 31 Federal 1
US Well Number:	3001534906
LOCATION:	Section 31, T.16 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

- 1) SET 4-1/2" CIBP @ ~~6,700'~~^{6814'}; CIRC. WELL W/ M.L.F.; PRES. TEST 4-1/2" CIBP X CSG.; PUMP (25)³⁵ SXS. CLASS "C" CMT. @ ~~6,700'-6,495'~~ (4-1/2" LNR. TOP). ~~6,814'~~^{6814'} to ~~6,495'~~^{6495'} WOC & TAG
- 2) PUMP (25) SXS. CLASS "C" CMT. @ ~~6,120'-5,960'~~ (T/ABO); WOC X TAG TOC. (6090' to 5929')
- 3) PUMP (25) SXS. CLASS "C" CMT. @ ~~4,208'-4,068'~~ (T/GLOR.). (4188' to 4046')
- 4) PUMP (25) SXS. CLASS "C" CMT. @ 3,165'-3,035' (9-5/8" CSG. SHOE); WOC X TAG TOC.
- 5) CIRC. TO SURF. (105) SXS. CLASS "C" CMT. @ 863'-3' (T/YATES, 13-3/8" CSG. SHOE).
- 6) DIG OUT X CUT OFF WELLHEAD 3' B.G.L.; WELD ON STEEL PLATE TO CSGS. X INSTALL DRY HOLE MARKER.

DURING THIS PROCEDURE WE PLAN TO USE THE CLOSED-LOOP SYSTEM W/ A STEEL TANK AND HAUL CONTENTS TO THE REQUIRED DISPOSAL, PER OCD RULE 19.15.17.

Approval Subject to General Requirements and Special Stipulations Attached

- No more than 3000 feet between cement plugs in cased hole.
- Wait on Cement and Tag Top of Cement Requirement:
 1. Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.
 2. Formation plug is optional if a solid base is established and confirmed.

Sundry ID: 2651692

Sundry ID

2651692

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	863.00	863.00	Tag/Verify		
Shoe Plug	157.00	257.00	100.00	Tag/Verify		
Top of Salt @ 345	291.55	395.00	103.45	Tag/Verify		
Base of Salt @ 640	583.60	690.00	106.40	Tag/Verify		
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio		
Yates @ 813	754.87	863.00	108.13	Perforatio	25.00	Spot from 863' to surface. Verify at Surface.
Shoe Plug	3050.00	3150.00	100.00	Tag/Verify	25.00	Spot from 3150' to 3050' WOC and Tag
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio		3165' to 3035'
Glorieta @ 4138	4046.62	4188.00	141.38	Perforatio	25.00	Spot from 4188' to 4046'.

				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open		
ABO in Platform Shelf @ 6040	5929.60	6090.00	160.40	Perforatio	25.00	Spot from 5929' to 6090'
Shoe Plug	6495.00	6595.00	100.00	Tag/Verify		6090' 6090' to 5929'
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open		
CIBP Plug	6779.00	6814.00	35.00	Perforatio	35.00	Leak Test CIBP, Spot from 6814' to 6495'. WOC and Tag
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open		
Wolfcamp @ 7135	7013.65	7185.00	171.35	Perforatio		Not Necessary
Perforations Plug (If No CIBP)	7767.00	10123.00	2356.00	Tag/Verify		Not Necessary

				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open		
Morrow @ 10235	10082.65	10285.00	202.35	Perforatio		Not Necessary
Shoe Plug	10395.00	10495.00	100.00	Tag/Verify		Not Necessary

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.

Class H >7500'

Class C <7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Critical, High, Medium, Secretary : Top of salt to surface if no salt take the deepest fresh water.

R111P: 50' from bottom of salt to surface

Class C: 1.32 ft³/sx

Class H: 1.06 ft³/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	High	Top of Salt to surface	
Shoe @	207.00		
Shoe @	3100.00		KGP @ 6864'
Shoe @	10445.00		
Shoe @	10338.00	TOC @	6545.00
Perforatons Top @	7817.00	Perforations	10073.00
		CIBP @	6814.00

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 79563

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 79563
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	2/8/2022