

Form 3160-3
(March 2012)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD

JUL 03 2017

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0392082A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator CIMAREX ENERGY COMPANY OF COLORADO (162683)		7. If Unit or CA Agreement, Name and No.
3a. Address 202 S. Cheyenne Ave, Ste 1000 Tulsa OK 741		8. Lease Name and Well No. (38778) HALLERTAU 5 FEDERAL 11H
3b. Phone No. (include area code) (432)620-1936		9. API Well No. 30-025-43886 (98065)
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SWSW / 490 FSL / 398 FWL / LAT 32.06625 / LONG -103.704544 At proposed prod. zone NWNW / 330 FNL / 820 FWL / LAT 32.078678 / LONG -103.703233		10. Field and Pool, or Exploratory WILDCAT WOLFCAMP / WILDCAT WO
14. Distance in miles and direction from nearest town or post office* 30.2 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 5 / T26S / R32E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. 389 feet (Also to nearest drig. unit line, if any)	16. No. of acres in lease 1400.49	12. County or Parish EDDY Lea
17. Spacing Unit dedicated to this well 160	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, 20 feet applied for, on this lease, ft.	19. Proposed Depth 11905 feet / 16331 feet	20. BLM/BIA Bond No. on file FED: NMB001187
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3271 feet	22. Approximate date work will start* 09/25/2017	23. Estimated duration 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Aricka Easterling / Ph: (918)560-7060	Date 03/07/2017
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 06/27/2017
Title Supervisor Multiple Resources		

Application approval 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.
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS

KZ
07/03/17



APD ID: 10400012121

Submission Date: 03/07/2017

Highlight
All Changes

Operator Name: CIMAREX ENERGY COMPANY OF
COLORADO

Federal/Indian APD: FED

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Application

Section 1 - General

APD ID: 10400012121

Tie to previous NOS?

Submission Date: 03/07/2017

BLM Office: CARLSBAD

User: Aricka Easterling

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM0392082A

Lease Acres: 1400.49

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: CIMAREX ENERGY COMPANY OF COLORADO

Operator letter of designation:

Keep application confidential? YES

Operator Info

Operator Organization Name: CIMAREX ENERGY COMPANY OF COLORADO

Operator Address: 202 S. Cheyenne Ave, Ste 1000

Zip: 74103

Operator PO Box:

Operator City: Tulsa

State: OK

Operator Phone: (432)620-1936

Operator Internet Address: tstathem@cimarex.com

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT
WOLFCAMP

Pool Name: WILDCAT
WOLFCAMP

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:
HALLERTAU 5 FEDERAL

Number: 8H, 11H, 16H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 30.2 Miles

Distance to nearest well: 20 FT

Distance to lease line: 389 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Hallertau_5_Fed_11H_C102_plat_03-06-2017.pdf

Well work start Date: 09/25/2017

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

STATE: NEW MEXICO

Meridian: NEW MEXICO PRINCIPAL **County:** EDDY

Latitude: 32.06625

Longitude: -103.704544

SHL

Elevation: 3271

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM0392082A

NS-Foot: 490

NS Indicator: FSL

EW-Foot: 398

EW Indicator: FWL

Twsp: 26S

Range: 32E

Section: 5

Aliquot: SWSW

Lot:

Tract:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: EDDY
	Latitude: 32.0659028	Longitude: -103.7039694	
KOP	Elevation: -8087	MD: 11367	TVD: 11358
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM0392082A	
	NS-Foot: 365	NS Indicator: FSL	
	EW-Foot: 576	EW Indicator: FWL	
	Twsp: 26S	Range: 32E	Section: 5
	Aliquot: SWSW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: EDDY
	Latitude: 32.0662333	Longitude: -103.7038194	
PPP	Elevation: -8414	MD: 11727	TVD: 11685
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM0392082A	
	NS-Foot: 486	NS Indicator: FSL	
	EW-Foot: 622	EW Indicator: FWL	
	Twsp: 26S	Range: 32E	Section: 5
	Aliquot: SWSW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: EDDY
	Latitude: 32.078678	Longitude: -103.703233	
EXIT	Elevation: -8634	MD: 16331	TVD: 11905
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM0392082A	
	NS-Foot: 330	NS Indicator: FNL	
	EW-Foot: 820	EW Indicator: FWL	
	Twsp: 26S	Range: 32E	Section: 5
	Aliquot: NWNW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: EDDY
	Latitude: 32.078678	Longitude: -103.703233	
BHL	Elevation: -8634	MD: 16331	TVD: 11905
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM0392082A	
	NS-Foot: 330	NS Indicator: FNL	
	EW-Foot: 820	EW Indicator: FWL	

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Twsp: 26S

Range: 32E

Section: 5

Aliquot: NWNW

Lot:

Tract:

Drilling Plan

Section 1 - Geologic Formations

ID: Surface formation

Name: RUSTLER

Lithology(ies):

Elevation: 3271

True Vertical Depth: 1019

Measured Depth: 1019

Mineral Resource(s):

USEABLE WATER

Is this a producing formation? N

ID: Formation 1

Name: SALADO

Lithology(ies):

Elevation: 1926

True Vertical Depth: 1345

Measured Depth: 1345

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: CASTILE

Lithology(ies):

Elevation: 471

True Vertical Depth: 2800

Measured Depth: 2800

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

ID: Formation 3

Name: BASE OF SALT

Lithology(ies):

Elevation: -888

True Vertical Depth: 4159

Measured Depth: 4159

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4

Name: LAMAR

Lithology(ies):

Elevation: -1164

True Vertical Depth: 4435

Measured Depth: 4435

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 5

Name: BELL CANYON

Lithology(ies):

Elevation: -1184

True Vertical Depth: 4455

Measured Depth: 4455

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 6

Name: CHERRY CANYON

Lithology(ies):

Elevation: -2140

True Vertical Depth: 5411

Measured Depth: 5411

Mineral Resource(s):

NATURAL GAS

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

OIL

Is this a producing formation? N

ID: Formation 7

Name: BRUSHY CANYON

Lithology(ies):

Elevation: -3459

True Vertical Depth: 6730

Measured Depth: 6730

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 8

Name: BONE SPRING

Lithology(ies):

Elevation: -5170

True Vertical Depth: 8441

Measured Depth: 8441

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 9

Name: WOLFCAMP

Lithology(ies):

Elevation: -8414

True Vertical Depth: 11685

Measured Depth: 11685

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Pressure Rating (PSI): 10M

Rating Depth: 11993

Equipment: Exhibit "E-1". A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

Requesting Variance? YES

Variance request: Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (Please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Testing Procedure: BOP's will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high. On the Production casing, pressure tests will be made to 250 psi low and 5000 psi high. The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, 250 psi low and 1500 psi high on the intermediate casing and 250 psi low and 2500 psi high on the production casing. The System may be upgraded to a higher pressure but still tested to the working pressures listed. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

Hallertau_5_Fed_11H_Choke_10M_05-25-2017.pdf

BOP Diagram Attachment:

Hallertau_5_Fed_11H_BOP_10M_05-25-2017.pdf

Pressure Rating (PSI): 2M

Rating Depth: 1069

Equipment: Exhibit "E-1". A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

Requesting Variance? YES

Variance request: Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (Please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

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Choke Diagram Attachment:

Hallertau_5_Fed_11H_Choke_2M3M_03-06-2017.pdf

BOP Diagram Attachment:

Hallertau_5_Fed_11H_BOP_2M_03-06-2017.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Pressure Rating (PSI): 5M

Rating Depth: 4435

Equipment: Exhibit "E-1". A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

Requesting Variance? YES

Variance request: Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (Please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Testing Procedure: BOP's will be tested by an independent service company. The ram preventers, choke manifold, and safety valves will be tested as follows: On the surface casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate casing, pressure tests will be made to 250 psi low and 3000 psi high. On the Production casing, pressure tests will be made to 250 psi low and 5000 psi high. The Annular Preventer will be tested to 250 psi low and 1000 psi high on the surface casing, 250 psi low and 1500 psi high on the intermediate casing and 250 psi low and 2500 psi high on the production casing. The System may be upgraded to a higher pressure but still tested to the working pressures listed. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

Hallertau_5_Fed_11H_Choke_5M_05-25-2017.pdf

BOP Diagram Attachment:

Hallertau_5_Fed_11H_BOP_5M_05-25-2017.pdf

Section 3 - Casing

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

String Type: PRODUCTION

Other String Type:

Hole Size: 8.75

Top setting depth MD: 11368

Top setting depth TVD: 11368

Top setting depth MSL: 11368

Bottom setting depth MD: 11993

Bottom setting depth TVD: 11993

Bottom setting depth MSL: 11993

Calculated casing length MD: 625

Casing Size: 7.0

Other Size

Grade: L-80

Other Grade:

Weight: 32

Joint Type: BUTT

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.55

Burst Design Safety Factor: 1.53

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 51.62

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 51.62

Casing Design Assumptions and Worksheet(s):

Hallertau_5_Fed_11H_Casing_Assumptions_05-25-2017.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 0

Bottom setting depth MD: 1069

Bottom setting depth TVD: 1069

Bottom setting depth MSL: 1069

Calculated casing length MD: 1069

Casing Size: 13.375

Other Size

Grade: OTHER

Other Grade: H40/J55 Hybrid

Weight: 48

Joint Type: STC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.51

Burst Design Safety Factor: 3.54

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 6.28

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 6.28

Casing Design Assumptions and Worksheet(s):

Hallertau_5_Fed_11H_Casing_Assumptions_05-25-2017.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 0

Bottom setting depth MD: 4435

Bottom setting depth TVD: 4435

Bottom setting depth MSL: 4435

Calculated casing length MD: 4435

Casing Size: 9.625

Other Size

Grade: J-55

Other Grade:

Weight: 40

Joint Type: LTC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.22

Burst Design Safety Factor: 1.68

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 2.93

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 2.93

Casing Design Assumptions and Worksheet(s):

Hallertau_5_Fed_11H_Casing_Assumptions_05-25-2017.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

String Type: PRODUCTION

Other String Type:

Hole Size: 8.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 0

Bottom setting depth MD: 11368

Bottom setting depth TVD: 11368

Bottom setting depth MSL: 11368

Calculated casing length MD: 11368

Casing Size: 7.0

Other Size

Grade: L-80

Other Grade:

Weight: 32

Joint Type: LTC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.62

Burst Design Safety Factor: 1.7

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 1.78

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 1.78

Casing Design Assumptions and Worksheet(s):

Hallertau_5_Fed_11H_Casing_Assumptions_05-25-2017.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

String Type: COMPLETION SYSTEM **Other String Type:**

Hole Size: 6

Top setting depth MD: 11368

Top setting depth TVD: 11368

Top setting depth MSL: 11368

Bottom setting depth MD: 16332

Bottom setting depth TVD: 16332

Bottom setting depth MSL: 16332

Calculated casing length MD: 4964

Casing Size: 4.5

Other Size

Grade: HCP-110

Other Grade:

Weight: 13.5

Joint Type: BUTT

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.3

Burst Design Safety Factor: 1.54

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 58.21

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 58.21

Casing Design Assumptions and Worksheet(s):

Hallertau_5_Fed_11H_Casing_Assumptions_05-25-2017.pdf

Section 4 - Cement

Casing String Type: SURFACE

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 1069	Cement Type: Class C
Additives: Bentonite	Quantity (sks): 518	Yield (cu.ff./sk): 1.72
Density: 13.5	Volume (cu.ft.): 890	Percent Excess: 50

Tail

Top MD of Segment: 0	Bottom MD Segment: 1069	Cement Type: Class C
Additives: LCM	Quantity (sks): 139	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 185	Percent Excess: 25

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 4435	Cement Type: 35:65 (Poz:C)
Additives: Salt & Bentonite	Quantity (sks): 835	Yield (cu.ff./sk): 1.88
Density: 12.9	Volume (cu.ft.): 1568	Percent Excess: 50

Tail

Top MD of Segment: 0	Bottom MD Segment: 4435	Cement Type: Class C
Additives: Retarder	Quantity (sks): 256	Yield (cu.ff./sk): 1.36
Density: 14.8	Volume (cu.ft.): 347	Percent Excess: 25

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 0	Bottom MD Segment: 11368	Cement Type: Class C
Additives: Extender, Salt, Strength Enhancement, LCM, Fluid loss, Retarder	Quantity (sks): 217	Yield (cu.ff./sk): 6.18
Density: 9.2	Volume (cu.ft.): 1335	Percent Excess: 25

Tail

	Bottom MD Segment: 11368	Cement Type: 50:50 (Poz:H)
Top MD of Segment: 0	Quantity (sks): 80	Yield (cu.ff./sk): 1.3
Additives: Salt, Bentonite, fluid Loss, Dispersant, SMS	Volume (cu.ft.): 104	Percent Excess: 10
Density: 14.2		

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Stage Tool Depth:

Lead

Top MD of Segment: 11368	Bottom MD Segment: 11993	Cement Type: Class C
Additives: Extender, Salt, Strength Enhancement, LCM, Fluid loss, retarder	Quantity (sks): 217	Yield (cu.ff./sk): 6.18
Density: 9.2	Volume (cu.ft.): 1335	Percent Excess: 25

Tail

Top MD of Segment: 11368	Bottom MD Segment: 11993	Cement Type: 50:50 (poz;H)
Additives: Salt, Bentonite, Fluid Loss, Dispersant, SMS	Quantity (sks): 80	Yield (cu.ff./sk): 1.3
Density: 14.2	Volume (cu.ft.): 104	Percent Excess: 10

Casing String Type: COMPLETION SYSTEM

Stage Tool Depth:

Lead

Top MD of Segment: 11368	Bottom MD Segment: 16332	Cement Type: 50:50 (poz;H)
Additives: Salt, Bentonite, Fluid Loss, Dispersant, SMS	Quantity (sks): 315	Yield (cu.ff./sk): 1.3
Density: 14.2	Volume (cu.ft.): 409	Percent Excess: 10

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Top Depth: 0 Bottom Depth: 1069

Mud Type: SPUD MUD

Min Weight (lbs./gal.): 8.3 Max Weight (lbs./gal.): 8.8

Density (lbs/cu.ft.): Gel Strength (lbs/100 sq.ft.):

PH: Viscosity (CP):

Filtration (cc): Salinity (ppm):

Additional Characteristics:

Top Depth: 12642 Bottom Depth: 16332

Mud Type: OIL-BASED MUD

Min Weight (lbs./gal.): 10.5 Max Weight (lbs./gal.): 11

Density (lbs/cu.ft.): Gel Strength (lbs/100 sq.ft.):

PH: Viscosity (CP):

Filtration (cc): Salinity (ppm):

Additional Characteristics:

Top Depth: 1069 Bottom Depth: 4435

Mud Type: SALT SATURATED

Min Weight (lbs./gal.): 9.7 Max Weight (lbs./gal.): 10.2

Density (lbs/cu.ft.): Gel Strength (lbs/100 sq.ft.):

PH: Viscosity (CP):

Filtration (cc): Salinity (ppm):

Additional Characteristics:

Top Depth: 4435 Bottom Depth: 11993

Mud Type: OTHER FW/Cut Brine

Min Weight (lbs./gal.): 8.5 Max Weight (lbs./gal.): 9

Density (lbs/cu.ft.): Gel Strength (lbs/100 sq.ft.):

PH: Viscosity (CP):

Filtration (cc): Salinity (ppm):

Additional Characteristics:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

No DST Planned

List of open and cased hole logs run in the well:

CNL,DS,GR

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7989

Anticipated Surface Pressure: 5369.9

Anticipated Bottom Hole Temperature(F): 188

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

Lost circulation may be encountered in the Delaware mountain group. Abnormal pressure as well as hole stability issues may be encountered in the Wolfcamp.

Contingency Plans geohazards description:

Lost circulation material will be available, as well as additional drilling fluid along with the fluid volume in the drilling rig pit system. Drilling fluid can be mixed on location or mixed in vendor mud plant and trucked to location if needed. Sufficient barite will be available to maintain appropriate mud weight for the Wolfcamp interval

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Hallertau_5_Fed_11H_H2S_Plan_03-07-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Hallertau_5_Fed_11H_Directional_Prelims_03-07-2017.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Hallertau_5_Fed_11H_Flex_Hose_03-07-2017.pdf

Hallertau_5_Fed_11H_Drilling_Plan_03-07-2017.pdf

Hallertau_5_Fed_11H_Gas_Capture_Plan_05-25-2017.pdf

SUPO

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Hallertau_5_Fed_11H_Existing_road_from_Hallertau_5__4_well_pad_03-07-2017.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? YES

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Hallertau_5_Fed_CTB_West_Access_Road_ROW_03-07-2017.pdf

New road type: COLLECTOR,TWO-TRACK

Length: 1389.86

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 6

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

New road access erosion control: The side slopes of any drainage channels or swales that are crossed will be re-contoured to original grade and compacted and mulched as necessary to avoid erosion. Where steeper slopes cannot be avoided, water bars or silt fence will be constructed, mulch/rip-rap applied, or other measures employed as necessary to control erosion. Hay bales, straw waddles or silt fence may also be installed to control erosion as needed. All disturbed areas will be seeded with a mix appropriate for the area unless specified otherwise by the landowner.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: GRAVEL

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Push off and stockpile alongside the location.

Access other construction information: The operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations or other events.

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT,LOW WATER

Drainage Control comments: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Road Drainage Control Structures (DCS) description: n/a

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Hallertau_5_Fed_11H_Mile_radius_Existing_wells_03-07-2017.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description:

Production Facilities description:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Production Facilities map:

Hallertau_5_Fed_CTB_West_Battery_Layout_03-07-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
SURFACE CASING

Water source type: MUNICIPAL

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT

Permit Number:

Source land ownership: FEDERAL

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 5000

Source volume (acre-feet): 0.6444655

Source volume (gal): 210000

Water source and transportation map:

Hallertau_5_Fed_11H_Drlg_water_route_03-07-2017.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: The drilling and testing operations will be conducted on a watered and compacted native soil grade. Soft spots will be covered with scoria, free of large rocks (3" diameter). Upon completion as a commercial producer the location will be covered with scoria, free of large rocks (3" dia.) from an existing privately owned gravel pit.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.

Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: n/a

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Haul to R360 commercial Disposal

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: n/a

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Windmill Spraying Service hauls trash to Lea County Landfill

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Hallertau_5_Fed_11H_Wellsite_layout_03-07-2017.pdf

Comments:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

Drainage/Erosion control construction: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm and settlement pond will be installed. Contaminated water will be removed from pond, stored in waste tanks, and disposed of at a state approved facility. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Drainage/Erosion control reclamation: All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Wellpad long term disturbance (acres): 7.419

Wellpad short term disturbance (acres): 7.419

Access road long term disturbance (acres): 0.957

Access road short term disturbance (acres): 0.957

Pipeline long term disturbance (acres): 10.303719

Pipeline short term disturbance (acres): 1.3090909

Other long term disturbance (acres): 1.211

Other short term disturbance (acres): 1.211

Total long term disturbance: 19.890718

Total short term disturbance: 10.8960905

Reconstruction method: After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing.

Reclamation, Re-vegetation, and Drainage: All disturbed and recontoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Topsoil redistribution: Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated.

Soil treatment: As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching or fertilizing.

Existing Vegetation at the well pad: n/a

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Weed treatment plan description: n/a

Weed treatment plan attachment:

Monitoring plan description: n/a

Monitoring plan attachment:

Success standards: n/a

Pit closure description: n/a

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Fee Owner: Bill Patterson

Fee Owner Address: 6851 NE Loop 820, Suite 200

Phone: (817)577-1131

Email:

Surface use plan certification:

Surface use plan certification document:

Surface access agreement or bond:

Surface Access Agreement Need description:

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,288103 ROW – Salt Water Disposal Pipeline/Facility,289001 ROW- O&G Well Pad,FLPMA (Powerline),Other

ROW Applications

SUPO Additional Information: Access road for well pad will be an existing access road on the Hallertau 5 Federal 4H well pad.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite with BLM (Jeff Robertson) & Cimarex (Barry Hunt) on 2/9/17. V-Door East. Frac pad NW corner (West). Top soil west. Interim reclamation: All sides. Hallertau 5 Federal CTB West: 400' x 400'. Center stake at 900 FSL & 1031 FWL. BLM will require an off location berm constructed along the entire east side of battery. Battery site moved much closer to the 4H due to playa area to east of original requested area.

Other SUPO Attachment

Hallertau_5_Fed_CTB_West_Gas_Sales_ROW_03-07-2017.pdf

Hallertau_5_Fed_CTB_West_Powerline_ROW_03-07-2017.pdf

Hallertau_5_Fed_CTB_West_SWD_ROW_03-07-2017.pdf

Hallertau_5_Fed_11H_Gas_lift_Flowline_map_03-07-2017.pdf

Hallertau_5_Fed_11H_Public_Access_Road_03-07-2017.pdf

Hallertau_5_Fed_11H_Road_Description_03-07-2017.pdf

Hallertau_5_Fed_11H_Temp_Fresh_Water_Route_03-07-2017.pdf

Hallertau_5_Fed_11H_TOPO_Map_03-07-2017.pdf

Hallertau_5_Fed_11H_SUPO_03-07-2017.pdf

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

PWD

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Bond Info

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001187

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Certification

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Aricka Easterling

Signed on: 03/07/2017

Title: Regulatory Analyst

Street Address: 202 S. Cheyenne Ave, Ste 1000

City: Tulsa

State: OK

Zip: 74103

Phone: (918)560-7060

Email address: aeasterling@cimarex.com

Field Representative

Representative Name:

Operator Name: CIMAREX ENERGY COMPANY OF COLORADO

Well Name: HALLERTAU 5 FEDERAL

Well Number: 11H

Street Address:

City:

State:

Zip:

Phone:

Email address:

Payment Info

Payment

APD Fee Payment Method: PAY.GOV

pay.gov Tracking ID: 2614FPAH