HOBBS OCD

Form 3160-3 (March 2012)

JUL 242018

FORM APPROVED

OMB No. 1004-0137

Evaluation October 31, 2014

UNITED STATES		002		Expires Octob	er 31, 2014
UNITED STATES DEPARTMENT OF THE II BUREAU OF LAND MANA		RECEIVE	ED	5. Lease Serial No. NMNM0559539	
				6. If Indian, Allotee or	Tribe Name
APPLICATION FOR PERMIT TO I	JRILL UN	RECNIER			
la. Type of work: DRILL REENTE	D			7. If Unit or CA Agreeme	nt, Name and No.
la. Type of work: ✓ DRILL REENTE	K				<u> </u>
lb. Type of Well: Oil Well Gas Well Other	✓ Sin	gle Zone Multip	le Zone	8. Lease Name and Well JAMES 19 FEDERAL	No. (3/348 34H
	15099)		9. APÌ Well No.	-41020
3a. Address 202 S. Cheyenne Ave., Ste 1000 Tulsa OK 74	3b. Phone No. (432)620-1	(include area code)		10 Field and Pool, or Expl BONE SPRING / SAN	1770
4. Location of Well (Report location clearly and in accordance with any	State requirem	ents.*)		11. Sec., T. R. M. or Blk.a	nd Survey or Area
At surface NWNE / 330 FNL / 2390 FEL / LAT 32.296328	3 / LONG -1	03.712942		SEC 19 / T23S / R32E	:/NMP
At proposed prod. zone SWSE / 330 FSL / 1430 FEL / LAT	32.283647	LONG -103,70983	35		
4. Distance in miles and direction from nearest town or post office* 32 miles				12. County or Parish LEA	13. State NM
5. Distance from proposed*	16. No. of a	cres in lease	17. Spacin	g Unit dedicated to this well	<u>'</u>
location to nearest 330 feet property or lease line, ft.	1440		160		
(Also to nearest drig. unit line, if any)					
8. Distance from proposed location* to nearest well, drilling, completed, 20 feet	19 Proposed	Depth	20. BLM/	BIA Bond No. on file	
applied for, on this lease, ft.	9135 feet /	13602 feet	FED: NI	MB001188	
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxin	nate date work will star	rt*	23. Estimated duration	
3639 feet	03/01/201	8		30 days	
	24. Attac	hments			
he following, completed in accordance with the requirements of Onshore	e Oil and Gas	Order No.1, must be at	tached to th	is form:	
	~				at . I 1 61 . /
. Well plat certified by a registered surveyor.		Item 20 above).	ie operano	ns unless covered by an exis	sting bond on the (see
A Surface Use Plan (if the location is on National Forest System L	ands, the	5. Operator certific	ation		
SUPO must be filed with the appropriate Forest Service Office).	,		specific inf	ormation and/or plans as ma	y be required by the
	Nama	BLM.		Dat	
5. Signature (Electropic-Submission)		(Printed/Typed) a Easterling / Ph: (9	18)560-7	I	ı: 1/15/2017
itle Regulatory Analyst					
Approved by (Signature)	Name	(Printed/Typed)		Da	te
(Electronic Submission)	Cody	Layton / Ph: (575)2	34-5959		7/06/2018
itle Assistant Field Manager Lands & Minerals	Office	.SBAD			
application approval does not warrant or certify that the applicant holds			ts in the sub	ject lease which would entit	e the applicant to
onduct operations thereon.) Conditions of approval Afrany, are attached.				,	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a critates any false, fictitious or fraudulent statements or representations as to	ime for any pe o any matter w	rson knowingly and within its jurisdiction.	villfully to n	nake to any department or ag	ency of the United
(Continued on page				. / *(Instruc	tions on page 2)
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	-47818	a Mani	Y	0,.	

Approval Date: 07/06/2018

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2:48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396, 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

Approval Date: 07/06/2018

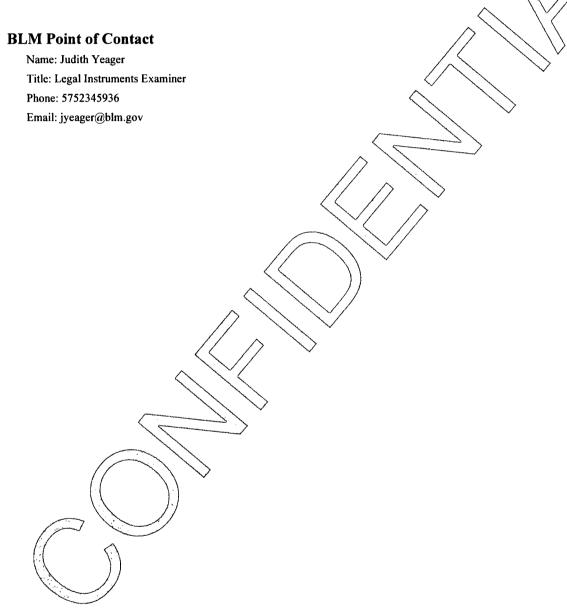
Additional Operator Remarks

Location of Well

1. SHL: NWNE / 330 FNL / 2390 FEL / TWSP: 23S / RANGE: 32E / SECTION: 19 / LAT: 32.296328 / LONG: -103.712942 (TVD: 0 feet, MD: 0 feet, MD: 0 feet, MD: 9088 feet)

PPP: NWNE / 330 FNL / 1970 FEL / TWSP: 23S / RANGE: 32E / SECTION: 19 / LAT: 32.2963222 / LONG: -103.709835 (TVD: 9050 feet, MD: 9088 feet)

BHL: SWSE / 330 FSL / 1430 FEL / TWSP: 23S / RANGE: 32E / SECTION: 19 / LAT: 32.283647 / LONG: -103.709835 (TVD: 9135.feet; MD: 13602 feet)



(Form 3160-3, page 3)

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.





NAME: Aricka Easterling

Street Address:

Email address:

City:

Phone:

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

©perator Certification Data Report 07/16/2018

Signed on: 10/30/2017

Zip:

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.

Title: Regulatory Analys	t	
Street Address: 202 S.	Cheyenne Ave, Ste 1000	
City: Tulsa	State: OK	Zip: 74103
Phone: (918)560-7060		
Email address: aeaster	ling@cimarex.com	
Field Represo	entative	
Representative Name) :	

State:



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT**

Application Data Report

APD ID: 10400024115

Submission Date: 11/15/2017

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 19 FEDERAL

Well Number: 34H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400024115

Tie to previous NOS? 10400020133

Submission Date: 11/15/2017

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: NMNM0559539

Lease Acres: 1440

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

Operator letter of designation:

Operator info

Operator Organization Name: CIMAREX ENERGY COMPANY

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

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: JAMES 19 FEDERAL

Well Number: 34H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BONE SPRING

Pool Name: SAND DUNES:

BONE SPRING SOUTH

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

Well Name: JAMES 19 FEDERAL Well Number: 34H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Number of Legs: 1

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Number: W2E2

JAMES 19 FEDERAL Well Class: HORIZONTAL

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Distance to town: 32 Miles Distance to nearest well: 20 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: James_19_Federal_34H_C102_Plat_20171115121256.pdf

Well work start Date: 03/01/2018 **Duration: 30 DAYS**

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Describe sub-type:

Vertical Datum: NAVD88 Datum: NAD83

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	330	FNL	239 0	FEL	238	32E	19	Aliquot NWNE	32.29632 8	- 103.7129 42	LEA		NEW MEXI CO		l	363 9	0	0
KOP Leg #1	330	FNL	206 8	FEL	238	32E	19	Aliquot NWNE	32.29632 8	- 103.7129 42	LEA		NEW MEXI CO		NMNM 055953 9	- 512 1	877 7	876 0
PPP Leg #1	330	FNL	197 0	FEL	235	32E	19	Aliquot NWNE	32.29632 22	- 103.7115 833	LEA		NEW MEXI CO		NMNM 055953 9	- 541 1		905 0

Well Name: JAMES 19 FEDERAL

Well Number: 34H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT
EXIT	330	FSL	143 0	FEL	23S	32E	19	Aliquot	32.28364	- 103.7098	LEA	NEW MEXI	NEW		NMNM 055953	- 549	136 02	913 5
Leg #1								SWSE	•	35		CO	CO		9	6	02	
BHL	330	FSL	143	FEL	235	32E	19	Aliquot	32.28364	-	LEA	NEW	NEW	F	NMNM	-	136	913
Leg			0					SWSE	7	103.7098		MEXI	MEXI		055953	549	02	5
#1					Į					35		co	CO		9	6		



Well Type: OIL WELL

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

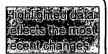
07/16/2018

APD ID: 10400024115 **Submission Date:** 11/15/2017

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 19 FEDERAL Well Number: 34H

Number: 34H Show Final Text



Section 1 - Geologic Formations

Formation	1		True Vertical	Measured			Producing
ID	Formation Name	Elevation:	Depth	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	3423	1160	1160		USEABLE WATER	No
2	SALADO	1163	2260	2260		NONE	No
3	CASTILE	163	3260	3260		NONE	No
4	BASE OF SALT	-1087	4510	4510		NONE	No
5	DELAWARE SAND	-1297	4720	4720		NATURAL GAS,OIL	No
6	BONE SPRING	-5077	8500	8500	<u></u>	NATURAL GAS,OIL	Yes
7	BONE SPRING 1ST	-6227	9650	9650		NATURAL GAS,OIL	No

Well Work Type: Drill

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M Rating Depth: 1210

Equipment: 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. 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: A multi-bowl wellhead system will be utilized. After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Well Name: JAMES 19 FEDERAL Well Number: 34H

Choke Diagram Attachment:

James 19 Federal 34H_Choke_2M3M_20171030085242.pdf

BOP Diagram Attachment:

James_19_Federal_34H_BOP_2M_20171030085349.pdf

Pressure Rating (PSI): 3M

Rating Depth: 4700

Equipment: 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. 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: A multi-bowl wellhead system will be utilized. After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Choke Diagram Attachment:

James 19 Federal 34H Choke 2M3M 20171030085405.pdf

BOP Diagram Attachment:

James_19_Federal_34H_BOP_3M_20171030085419.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	NON API	N	0	1210	0	1210	o	1210		OTH ER	48	STC	1.34	3.12	BUOY	5.54	BUOY	5.54
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4700	0	4700	0	4700	4700	J-55	40	LTC	1.59	1.58	BUOY	2.77	BUOY	2.77

Well Name: JAMES 19 FEDERAL

Well Number: 34H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	8721	0	8721	0	8721	8721	L-80	17	LTC	1.54	1.9	BUOY	2.18	BUOY	2.18
4	PRODUCTI ON	8.75	5.5	NEW	API	N	8721	13602	8721	13602	8721	13602	4881	L-80	17	BUTT	1.47	1.81	BUOY	56.4 1	BUOY	56.4 1

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

James_19_Federal_34H_Spec_Sheet_20171115122048.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

James_19_Federal_34H_Casing_Assumptions_20171115122107.pdf

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

James_19_Federal_34H_Casing_Assumptions_20171115122402.pdf

Well Name: JAMES 19 FEDERAL

Well Number: 34H

Casing Attachments

Casing ID: 3

String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

James_19_Federal_34H_Casing_Assumptions_20171115122253.pdf

Casing ID: 4

String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

James_19_Federal_34H_Casing_Assumptions_20171115122202.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1210	587	1.72	13.5	1008	50	Class C	Bentonite
SURFACE	Tail		0	1210	157	1.34	14.8	210	25	Class C	LCM
INTERMEDIATE	Lead		0	4700	880	1.88	12.9	1654	50	35:65 (Poz:C)	Salt, Bentonite
INTERMEDIATE	Tail		0	4700	275	1.34	14.8	368	25	Class C	LCM
PRODUCTION	Lead		0	8721	364	3.64	10.3	1322	25	Tuned Light	LCM

Well Name: JAMES 19 FEDERAL

Well Number: 34H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	8721	1044	1.3	14.5	1357	10	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, Expanding Agent, Retarder, Antifoam
PRODUCTION	Lead		8721	1360 2	364	3.64	10.3	1322	25	Tuned Light	LCM
PRODUCTION	Tail		8721	1360 2	1044	1.3	14.5	1357	10	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, Expanding Agent, Retarder, Antifoam

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

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1210	SPUD MUD	8.3	8.8							
1210	4700	SALT SATURATED	9.7	10.2							
4700	1360 2	OTHER : FW/Cut Brine	8.5	9							

Well Name: JAMES 19 FEDERAL Well Number: 34H

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: 4275

Anticipated Surface Pressure: 2265.3

Anticipated Bottom Hole Temperature(F): 162

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 geoharzards 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:

James_19_Federal_34H_H2S_Plan_20171115122904.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

James_19_Federal_34H_Directional_Plan_20171115122918.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

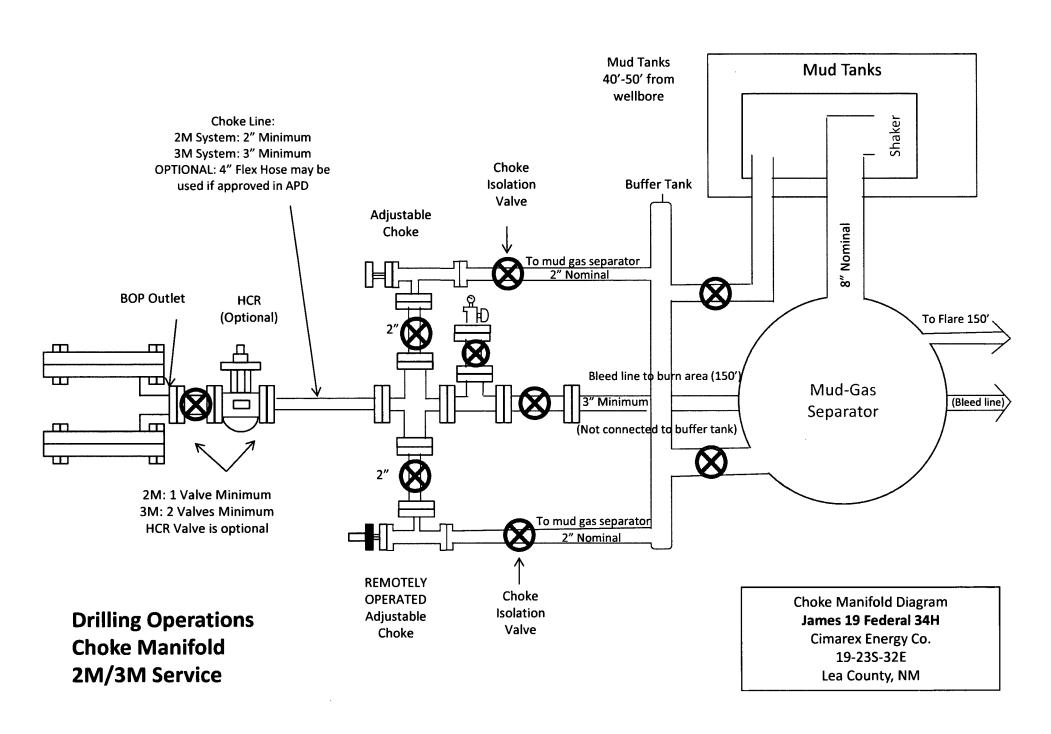
James 19 Federal 34H Anti Collision Rpt 20171115122947.pdf

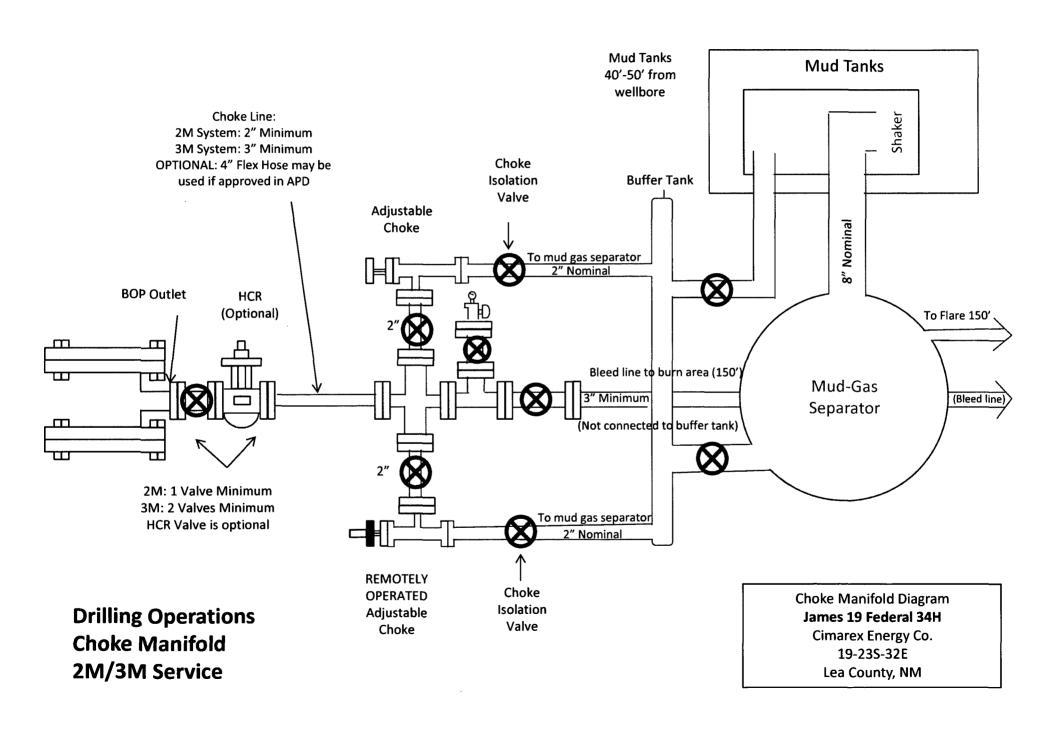
James_19_Federal_34H_Drilling_Plan_20171115122949.pdf

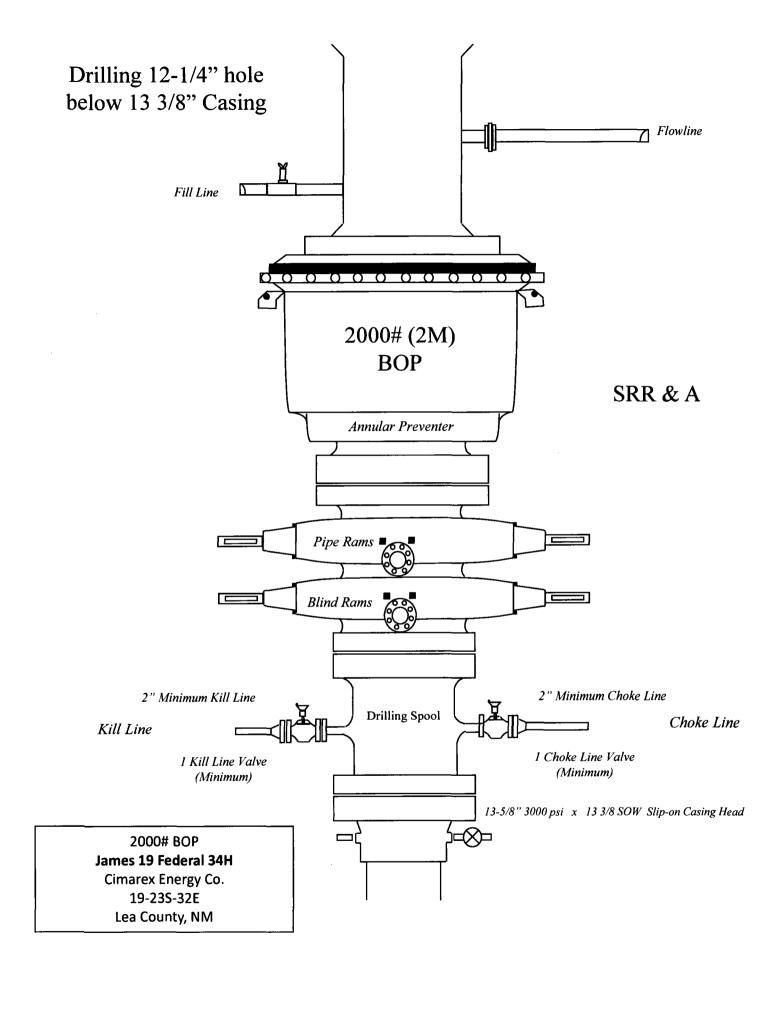
James_19_Federal_34H_Flex_Hose_20171115122953.pdf

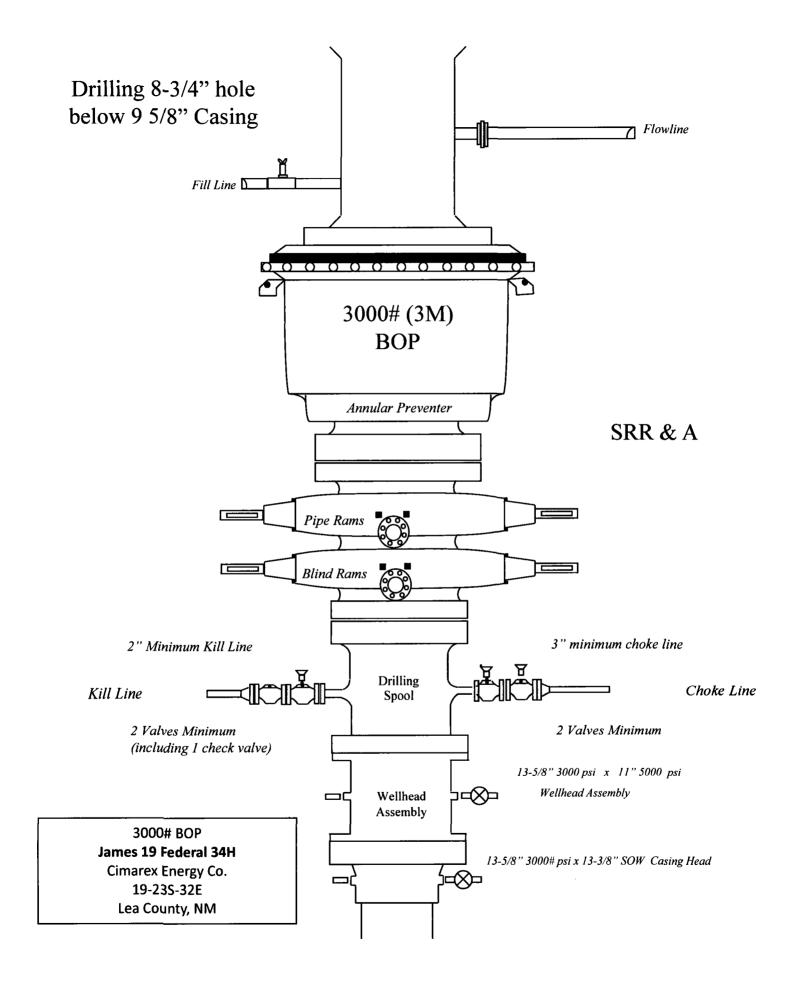
James 19 Federal 34H Gas Capture Plan 20171115122954.pdf

Other Variance attachment:









Casing Assumptions

Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn	SF Collapse	SF Burst	SF Tension
17 1/2	0	1210	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.34	3.12	5.54
12 1/4	0	4700	9-5/8"	40.00	J-55	LT&C	1.59	1.58	2.77
8 3/4	0	8721	5-1/2"	17.00	L-80	LT&C	1.54	1.90	2.18
8 3/4	8721	13602	5-1/2"	17.00	L-80	BT&C	1.47	1.81	56.41
				BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

Casing Assumptions

Casing Program

Hoje Size	L. 57 100 7	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1210	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.34	3.12	5.54
12 1/4	0	4700	9-5/8"	40.00	J-55	LT&C	1.59	1.58	2.77
8 3/4	0	8721	5-1/2"	17.00	L-80	LT&C	1.54	1.90	2.18
8 3/4	8721	13602	5-1/2"	17.00	L-80	BT&C	1.47	1.81	56.41
				BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

Casing Assumptions

Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1210	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.34	3.12	5.54
12 1/4	0	4700	9-5/8"	40.00	J-55	LT&C	1.59	1.58	2.77
8 3/4	0	8721	5-1/2"	17.00	L-80	LT&C	1.54	1.90	2.18
8 3/4	8721	13602	5-1/2"	17.00	L-80	вт&С	1.47	1.81	56.41
				BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

Casing Assumptions

Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1210	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.34	3.12	
12 1/4	0	4700	9-5/8"	40.00	J-55	LT&C	1.59	1.58	2.77
8 3/4	0	8721	5-1/2"	17.00	L-80	LT&C	1.54	1.90	2.18
8 3/4	8721	13602	5-1/2"	17.00	L-80	BT&C	1.47	1.81	56.41
	•	•		BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

1. Geological Formations

TVD of target 9,135 MD at TD 13,602 Pilot Hole TD N/A

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1160	N/A	
Salado	2260	N/A	
Castille	3260	N/A	
Base of Salt	4510	N/A	
Delaware Sands	7420	Hydrocarbons	
Bone Spring	8500	Hydrocarbons	
Avalon shale	9050	Hydrocarbons	
Avalon Target	9345	Hydrocarbons	
1st Bone Spring Sand	9650	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1210	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.34	3.12	5.54
12 1/4	0	4700	9-5/8"	40.00	J-55	LT&C	1.59	1.58	2.77
8 3/4	0	8721	5-1/2"	17.00	L-80	LT&C	1.54	1.90	2.18
8 3/4	8721	13602	5-1/2"	17.00	L-80	вт&с	1.47	1.81	56.41
			<u> </u>	BLM	Minimum Sa	afety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

	Y or N
casing new? If used, attach certification as required in Onshore Order #1	Y
oes casing meet API specifications? If no, attach casing specification sheet.	Y
premium or uncommon casing planned? If yes attach casing specification sheet.	N
oes the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
fill the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
well located within Capitan Reef?	N
yes, does production casing cement tie back a minimum of 50' above the Reef?	N
well within the designated 4 string boundary.	N
well located in SOPA but not in R-111-P?	N
yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
well located in R-111-P and SOPA?	N
yes, are the first three strings cemented to surface?	N
2nd string set 100' to 600' below the base of salt?	N
well located in high Cave/Karst?	N
yes, are there two strings cemented to surface?	N
or 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
well located in critical Cave/Karst?	N
yes, are there three strings cemented to surface?	N

Cimarex Energy Co., James 19 Federal 34H

3. Cementing Program

		Yld ft3/sack	H2O gai/sk	500# Comp. Strength (hours)	Slurry Description
587	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
157	14.80	1.34	6.32	9.5	Tail: Class C + LCM
880	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
275	14.80	1.34	6.32	9.5	Tail: Class C + LCM
364	10.30	3.64	22.18		Lead: Tuned Light + LCM
1044	14.50	1.30	5.79	20	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + Expanding Agent + Retarder + Antifoam
	587 157 880 275	lb/gal			Ib/gal ft3/sack gal/sk Strength (hours)

Casing String	тос	% Excess
Surface	0	45
Intermediate	0	44
Production	4500	. 17

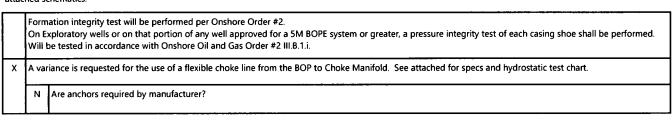
4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2M	Annular	x	50% of working pressure
			Blind Ram		
			Pipe Ram		2M
			Double Ram	х	
			Other		
8 3/4	13 5/8	3M	Annular	х	50% of working pressure
			Blind Ram		
			Pipe Ram		3M
			Double Ram	х	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See



5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 1210'	FW Spud Mud	8.30 - 8.80	30-32	N/C
1210' to 4700'	Brine Water	9.70 - 10.20	30-32	N/C
4700' to 13602'	FW/Cut Brine	8.50 - 9.00	30-32	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	ging, Coring and Testing
х	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4275 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

X H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi.

The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

The casing string utilizing steel body pack-off will be tested to 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.



APD ID: 10400024115

Well Type: OIL WELL

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

SUPO Data Report

Submission Date: 11/15/2017

Operator Name: CIMAREX ENERGY COMPANY

Well Name: JAMES 19 FEDERAL

vicii italiic. o aneo io i eber

Well Number: 34H

Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

James 19 20 Federal CTB Existing Road ROW 20171115123008.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

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:

James_19_20_Federal_CTB_Road_ROW_20171115123029.pdf

New road type: COLLECTOR

Length: 8131

Feet

Width (ft.): 30

Max slope (%): 20

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 recontoured 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:

Well Name: JAMES 19 FEDERAL

Well Number: 34H

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: GRAVEL

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:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT,LOW WATER,OTHER

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 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

James_19_20_Federal_CTB_Road_ROW_20171115123029.pdf

New road type:

Length:

Width (ft.):

Well Name: JAMES 19 FEDERAL	Well Number: 34H
Max slope (%):	Max grade (%):
Army Corp of Engineers (ACOE) permit req	quired?
ACOE Permit Number(s):	
New road travel width:	
New road access erosion control:	
New road access plan or profile prepared?	
New road access plan attachment:	
Access road engineering design?	
Access road engineering design attachme	ent:
Access surfacing type:	
Access topsoil source:	
Access surfacing type description:	
Access onsite topsoil source depth:	
Offsite topsoil source description:	
Onsite topsoil removal process:	
Access other construction information:	
Access miscellaneous information:	
Number of access turnouts:	Access turnout map:
Drainage Control	
New road drainage crossing:	
Drainage Control comments:	
Road Drainage Control Structures (DCS) de	escription:
Road Drainage Control Structures (DCS) at	tachment:
Access Additional Attach	ments
Additional Attachment(s):	
Section 2 - New or Recon	structed Access Roads
Will new roads be needed? YES	
New Road Map:	
James_19_20_Federal_CTB_Road_ROW_20	171115123029.pdf
New road type:	
Length:	Width (ft.):

Well Name: JAMES 19 FEDERAL Well Number: 34H

Max slope (%):

Max grade (%):

Army Corp of Engineers (ACOE) permit required?

ACOE Permit Number(s):

New road travel width:

New road access erosion control:

New road access plan or profile prepared?

New road access plan attachment:

Access road engineering design?

Access road engineering design attachment:

Access surfacing type:

Access topsoil source:

Access surfacing type description:

Access onsite topsoil source depth:

Offsite topsoil source description:

Onsite topsoil removal process:

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing:

Drainage Control comments:

Road Drainage Control Structures (DCS) description:

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:

James_19_Federal_34H_Mile_Radius_Existing_wells_20171030083207.pdf

Existing Wells description:

Well Name: JAMES 19 FEDERAL Well Number: 34H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

James_19_Federal_East_CTB_Layout_20171030083222.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,

Water source type: MUNICIPAL

SURFACE CASING **Describe type:**

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT, WATER RIGHT

Permit Number:

Source land ownership: STATE

Water source transport method:

PIPELINE, PIPELINE, TRUCKING, TRUCKING Source transportation land ownership: STATE

Water source volume (barrels): 5000

Source volume (acre-feet): 0.6444655

Source volume (gal): 210000

Water source and transportation map:

James_19_Federal_34H_Drilling_Water_Sources_20171030083238.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 Name: JAMES 19 FEDERAL Well Number: 34H

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.):

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 containment attachment:

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

FACILITY

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 containment attachment:

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

FACILITY

Disposal type description:

Well Name: JAMES 19 FEDERAL Well Number: 34H

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?

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:

James_19_Federal_34H_Well_Location_20171030083306.pdf

Comments:

Well Name: JAMES 19 FEDERAL Well Number: 34H

Section 10 - Plans for Surface Reclamation

Multiple Well Pad Name: JAMES 19 FEDERAL Type of disturbance: New Surface Disturbance

Multiple Well Pad Number: W2E2

Recontouring attachment:

James 19 Federal 34H Interim Reclaim_20171030083321.pdf

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 recontouring all slopes to facilitate and re-establish natural drainage.

Well pad proposed disturbance

(acres): 7.155

Road proposed disturbance (acres):

5.599

Powerline proposed disturbance

(acres): 4.643

Pipeline proposed disturbance

(acres): 54.659

Other proposed disturbance (acres):

4.993

Total proposed disturbance: 77.049

Well pad interim reclamation (acres): Well pad long term disturbance

3.558

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres):

54.659

Other interim reclamation (acres): 0

Total interim reclamation: 58.217

(acres): 3.597

Road long term disturbance (acres):

Powerline long term disturbance

(acres): 4.643

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres):

Total long term disturbance: 18.823

Disturbance Comments: Gas Pipeline: 11767', SWD: 66402', Flowline: 1197', Gas lift: 1197' Temp fresh water line: 21060'

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 re-contoured 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:

Existing Vegetation at the well pad attachment:

Operator Name: CIMAREX ENERGY COMPANY	
Well Name: JAMES 19 FEDERAL	Well Number: 34H
Existing Vegetation Community at the road:	
Existing Vegetation Community at the road attac	chment:
Existing Vegetation Community at the pipeline:	
Existing Vegetation Community at the pipeline a	ittachment:
Existing Vegetation Community at other disturba	ances:
Existing Vegetation Community at other disturba	ances attachment:
Non native seed used?	
Non native seed description:	
Seedling transplant description:	
Will seedlings be transplanted for this project?	
Seedling transplant description attachment:	
Will seed be harvested for use in site reclamatio	n?
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:
Sood Summary	Total pounds/Acre:

Seed reclamation attachment:

Well Name: JAMES 19 FEDERAL Well Number: 34H

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:

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: BUREAU OF LAND MANAGEMENT

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:

Well Name: JAMES 19 FEDERAL Well Number: 34H

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,288103 ROW - Salt Water Disposal Pipeline/Facility,288104 ROW - Salt Water Disposal ApIn/Fac-FLPMA,289001 ROW- O&G Well Pad,FLPMA (Powerline),Other

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite with BLM (Jesse Bassett) and Cimarex (Barry Hunt) on 8/29/17.

Other SUPO Attachment

James_19_Federal_34H_Public_Access_20171030084126.pdf

James_19_Federal_34H_Road_Description_20171030084127.pdf

James_19_Federal_34H_Temp_Fresh_water_route_20171030084128.pdf

James_19_20_Federal_CTB_Gas_Sales_ROW_20171115123346.pdf

James_19_20_Federal_CTB_Power_line_ROW_20171115123347.pdf

James_19_20_Federal_CTB_SWD_ROW_20171115123350.pdf

James_19_Federal_34H_SUPO_20171115123411.pdf

James_19_Federal_34H_Flow_Line_Gas_lift_ROW_20171115123632.pdf





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:

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:

Decribe 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:

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:

PWD disturbance (acres):

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: Decribe 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:

Section 4 - Injection

Unlined pit bond amount:

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

Additional bond information attachment:

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	
Troute you me to dame of curious bloomings the options. He	
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:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001188

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: