FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 UNITED STATES 5. Lease Serial No. RTMENT OF THE INTERIOR NMNM26394 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name LICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No DRILL REENTER la. Type of work: <8: Lease Name and Well No. Oil Well Gas Well Single Zone Multiple Zone lb. Type of Well: VÀCA DRAW 20-17 FEDERAL 9. API Well-No. Name of Operator CIMAREX ENERGY COMPANY 30-025-4 3b. Phone No. (include area code) 3a. Address 10. Field and Pool, or Exploratory 202 S. Cheyenne Ave., Ste 1000 Tulsa OK 74 (432)620-1936 WOLFCAMP / WILDCAT WOLFCAMI 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SESW / 330 FSL / 2010 FWL / LAT 32.109742 / LONG -103.596358 SEC 20 / T25S / R33E / NMP At proposed prod. zone NENW / 330 FNL / 2330 FWL / LAT 32.136947 / LONG -103.595311 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* NM 24 miles 15. Distance from proposed 16. No. of acres in lease 17. Spacing Unit dedicated to this well location to nearest 330 feet 2560 property or lease line, ft. (Also to nearest drig, unit line, if any) 18. Distance from proposed location*
to nearest well, drilling, completed, 20 feet 20. BLM/BIA Bond No. on file 19. Proposed Depth applied for, on this lease, ft. 12371 feet / 22125 feet FED: NMB001188 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23. Estimated duration 3417 feet 12/01/2017 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: Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 25. Signature Name (Printed/Typed) Date Aricka Easterling / Ph: (918)560-7060 05/10/2017 (Electronic Submission) Title Regulatory Analyst Name (Printed/Typed) Date Approved by (Signature) Cody Layton / Ph: (575)234-5959 12/21/2017 (Electronic Submission) Office **CARLSBAD** 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. *(Instructions on page 2) (Continued on page 2) NSL Order required from Santa Fe pproval Date: 12/21

· Dorbige

Application for Permit to Drill

U.S. Department of the Interior Bureau of Land Management

APD Package Report

APD ID: 10400013701

APD Received Date: 05/10/2017 01:06 PM

Operator: CIMAREX ENERGY COMPANY

BOOL

Well Status: AAPD

Well Name: VACA DRAW 20-17 FEDERA

Date Printed: 01/02/2018 12:04 PM

Well Number: 10H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report

- Application Attachments

-- Well Plat: 1 file(s)

- Drilling Plan Report

- Drilling Plan Attachments

-- Blowout Prevention Choke Diagram Attachment: 2 file(s)

-- Blowout Prevention BOP Diagram Attachment: 2 file(s)

-- Casing Design Assumptions and Worksheet(s): 4 file(s)

-- Hydrogen sulfide drilling operations plan:// file(s)

-- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)

98094

-- Other Facets: 3 file(s)

- SUPO Report

- SUPO Attachments

-- New Road Map: 1 file(s)

-- Attach Well map: 1 file(s)

-- Production Facilities map: 1 file(s)

Water source and transportation map: 1 file(s)

Well Site Layout Diagram: 1 file(s)

-- Recontouring attachment: 1 file(s)

-- Other SUPO Attachment: 9 file(s)

- PWD Report

- PWD Attachments

-- None

- Bond Report

- Bond Attachments

HOBBS OCA

RECEIVED



EXHIBIT NO.	1

Date of Issue: 8/21/2017

Bureau of Land Management, Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220

Cultural and Archaeological Resources

BLM Report No. 17-0295

17-0334

NOTICE OF STIPULATIONS

<u>Historic properties</u> in the vicinity of this project are protected by federal law. In order to ensure that they are not damaged or destroyed by construction activities, the project proponent and construction supervisors shall ensure that the following stipulations are implemented.

Project Name:	Vaca Draw 20-17
	1). A 3-day preconstruction call-in notification. Contact BLM Inspection and Enforcement at
Required	2. Professional archaeological monitoring. Contact your BLM project archaeologist at (575) 234-5917 for assistance.
A . 🛛	These stipulations must be given to your monitor at least 5 days prior to the start of construction.
B. 🖂	No construction, including vegetation removal or other site prep may begin prior to the arrival of the monitor.
	3. Cultural site barrier fencing. (Your monitor will assist you).
A . 🗀	A temporary site protection barrier(s) shall be erected prior to all ground-disturbing activities. The minimum barrier(s) shall consist of upright wooden survey lath spaced no more than ten (10) feet apart and marked with blue ribbon flagging or blue paint. There shall be no construction activities or vehicular traffic past the barrier(s) at any time.
В. 🗌	A permanent, 4-strand barbed wire fence strung on standard "T-posts" shall be erected prior to all ground-disturbing activities. No construction activities or vehicle traffic are allowed past the fence.
Required	4. The archaeological monitor shall:
A.	
B . 🛛	Observe all ground-disturbing activities within 100 feet of cultural sites LA 128148 and LA 128149.
C. 🗌	Ensure that the proposed
D . 🖂	Ensure the proposed reroute for LA 128149 is adhered to.
E . 🛛	Submit a brief monitoring report within 30 days of completion of monitoring.
·	If subsurface cultural resources are encountered during the monitoring, all activities shall cease and a BLM-CFO archaeologist shall be notified immediately.
Other:	IF THE CONTRACT ARCHAEOLOGIST DOES NOT KNOW WHERE THE SITE(S) ARE LOCATED AT PLEASE COME BY THE CARLSBAD BLM AND MAPS AND OTHER DATA WILL BE PROVIDED UPON REQUEST TO THE CONTRACT ARCHAEOLOGIST

<u>Site Protection and Employee Education</u>: It is the responsibility of the project proponent and his construction supervisor to inform all employees and subcontractors that cultural and archaeological sites are to be avoided by all personnel, vehicles, and equipment; and that it is illegal to collect, damage, or disturb cultural resources on Public Lands.

For assistance contact:

Bruce Boeke (575) 234-5917



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



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: 05/10/2017

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:		
Street Address:		
City:	State:	Zip:

Phone:

Email address:



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

Application Data Report

APD ID: 10400013701

Operator Name: CIMAREX ENERGY COMPANY

Well Name: VACA DRAW 20-17 FEDERAL

Well Type: CONVENTIONAL GAS WELL

Submission Date: 05/10/2017

Well Number: 10H

Well Work Type: Drill

Highlighted data reflects the most

recent changes

Show Final Text

Section 1 - General

APD ID:

10400013701

Tie to previous NOS? 10400007829

Submission Date: 05/10/2017

BLM Office: CARLSBAD

Surface access agreement in place?

User: Aricka Easterling

Federal or Indian agreement:

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM26394

Lease Acres: 2560

Agreement in place? NO

Allotted?

Reservation:

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: VACA DRAW 20-17 FEDERAL

Well Number: 10H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WOLFCAMP

Pool Name: WILDCAT

WOLFCAMP

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

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

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: VACA Number: 2

Well Class: HORIZONTAL

DRAW SUPER PAD 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: 24 Miles

Distance to nearest well: 20 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat:

Vaca_Draw_20_17_Fed_10H_C102_Plat_05-05-2017.pdf

Well work start Date: 12/01/2017

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

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	FSL	201 0	FWL	258	33E	20	Aliquot SESW	32.10974 2	- 103.5963 58	LEA		NEW MEXI CO	F	NMNM 26394	341 7	0	0
KOP Leg #1	330	FSL	201 0	FWL	25\$	33E	20	Aliquot SESW	32.10974 2	- 103.5963 58	LEA	NEW MEXI CO		F		- 843 8	118 55	118 55
PPP Leg #1	444	FSL	209 7	FWL	25S	33E	20	Aliquot SESW	32.11021 9	- 103.5962 75	LEA		NEW MEXI CO		NMNM 26394	- 877 9	122 35	121 96



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

Drilling Plan Data Report

01/02/2018

APD ID: 10400013701

Submission Date: 05/10/2017

Highlighted data reflects the most

recent changes

Well Name: VACA DRAW 20-17 FEDERAL

Operator Name: CIMAREX ENERGY COMPANY

Well Number: 10H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured		_	Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	3418	984	984		USEABLE WATER	No
2	SALADO	2290	1128	1128		NONE	No
3	CASTILE	-1269	4687	4687		NONE .	No
4	BELL CANYON	-1538	4956	4956		NONE	No
5	CHERRY CANYON	-2556	5974	5974		NATURAL GAS,OIL	No
6	BRUSHY CANYON	-4066	7484	7484		NATURAL GAS,OIL	No
7	BONE SPRING	-5622	9040	9040		NATURAL GAS,OIL	No
8	BONE SPRING 2ND	-7155	10573	10573		NATURAL GAS,OIL	No
9	BONE SPRING 3RD	-8308	11726	11726		NATURAL GAS,OIL	No
. 10	WOLFCAMP	-8778	12196	12196		NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11855

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 10-3/4" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 10000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10000 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

Page 1 of 7

Well Name: VACA DRAW 20-17 FEDERAL Well Number: 10H

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 10000 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:

Vaca_Draw_20_17_Fed_10H_Choke_10M_20171012111526.pdf

BOP Diagram Attachment:

Vaca_Draw_20_17_Fed_10H_BOP_10M_20171012111537.pdf

Pressure Rating (PSI): 5M

Rating Depth: 1034

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: A multi-bowl wellhead system will be utilized. After running the 10-3/4" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 10000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10000 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 10000 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:

Vaca_Draw_20_17_Fed_10H_Choke_5M_05-05-2017.pdf,

BOP Diagram Attachment:

Vaca_Draw_20_17_Fed_10H_BOP_5M_20171012111558.pdf

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

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	14.7 5	10.75	NEW	API	N	0	1034	0	1034	0	1034	1034	J-55	40.5	BUTT	3.34	6.62	BUOY	15.0 2	BUOY	15.0 2
2	PRODUCTI ON	6.75	5.5	NEW.	API	N	0	11855	0	11855	0	11855	11855	L-80	20	LTC	1,15	1.19	BUOY	1.87	BUOY	1.87
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	12479	0	12479	0	12479	12479	L-80	29.7	витт	2.48	1.2	BUOY	1.82	BUOY	1.82
4	PRODUCTI ON	6.75	5.0	NEW	API	N	11855	22125	11855	22125	11855	22125	10270	P- 110	18	BUTT	1.67	1.69	BUOY	62.4 5	BUOY	62.4 5

Casing	Attac	hments
--------	-------	--------

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Vaca_Draw_20_17_Fed_10H_Casing_Assumption_20171012111709.pdf

Well Name: VACA DRAW 20	0-17 FEDERAL Well Number: 10H	•
Casing Attachments		
Casing ID: 2 Inspection Document:	String Type:PRODUCTION	
Spec Document:		
Tapered String Spec:		
	tions and Worksheet(s): _Fed_10H_Casing_Assumption_20171012111857.pdf	
Casing ID: 3 Inspection Document:	String Type:INTERMEDIATE	
Spec Document:		
Tapered String Spec:		
	tions and Worksheet(s): _Fed_10H_Casing_Assumption_20171012111816.pdf	
Casing ID: 4 Inspection Document:	String Type:PRODUCTION	
Spec Document:		
Tapered String Spec:		
	tions and Worksheet(s): _Fed_10H_Casing_Assumption_20171012112002.pdf	:
		1

Section 4 - Cement

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1034	501	1.72	13.5	690	50	Class C	Bentonite
SURFACE	Tail		0	1034	107	1.34	14.8	143	25	Class C	LCM
PRODUCTION	Lead		0	1185 5	727	1.3	14.2	944	10	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, SMS

INTERMEDIATE	Lead	0	1247 9	584	6.18	9.2	3608	50	Class C	Extender, Salt, Strength Enhancement, LCM, Fluid Loss, Retarder
INTERMEDIATE	Tail	0	1247 9	207	1.3	14.2	268	25	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, SMS
PRODUCTION	Lead	1185 5	2212 5	727	1.3	14.2	944	10	50:50 (Poz:H)	Salt, Bentonite, Fluid Loss, Dispersant, SMS

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

Bottom Depth
Mud Type
Min Weight (Ibs/gal)
Max Weight (lbs/gal)
Density (lbs/cu ft)
Gel Strength (lbs/100 sqft)
HA
Viscosity (CP)
Salinity (ppm)
Filtration (cc)
Additional Characteristics

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
1034	1247 9	OTHER : Brine Diesel Emulsion	8.5	9							·	
1247 9	2212 5	OIL-BASED MUD	12	12.5								
0	1034	SPUD MUD	8.3	8.8	t							

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: 8041

Anticipated Surface Pressure: 5319.38

Anticipated Bottom Hole Temperature(F): 191

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:

Vaca Draw 20 17 Fed 10H H2S Plan 05-05-2017.pdf

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

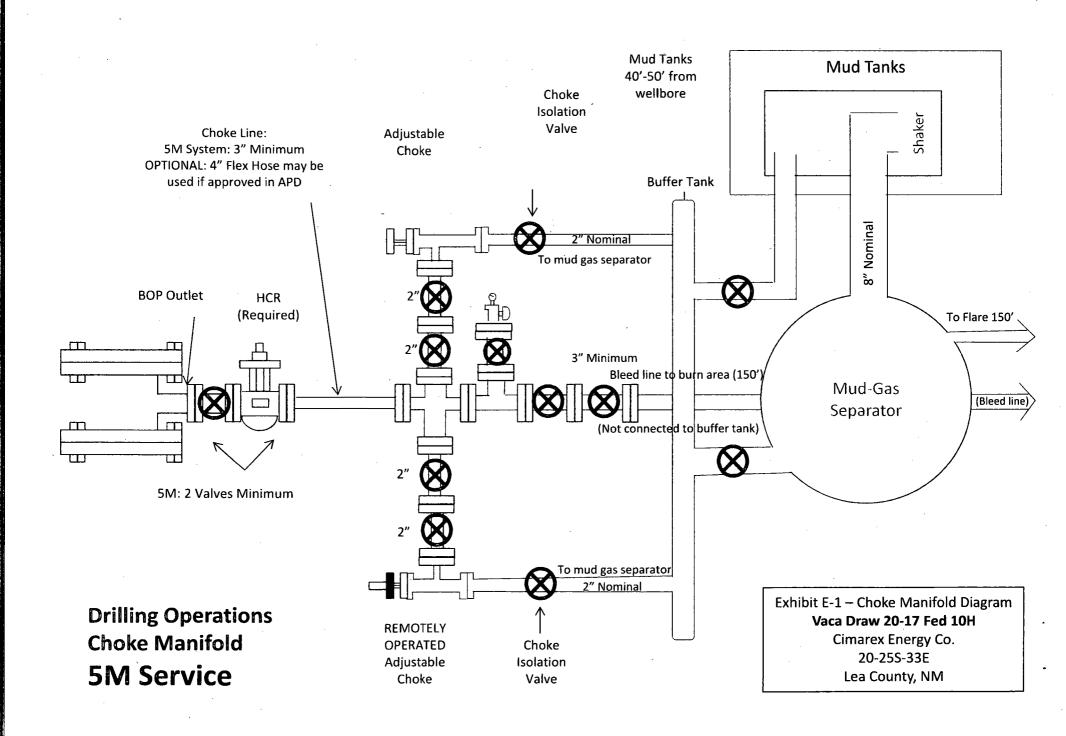
Vaca_Draw_20_17_Fed_10H_Directional_Plan_05-05-2017.pdf

Other proposed operations facets description:

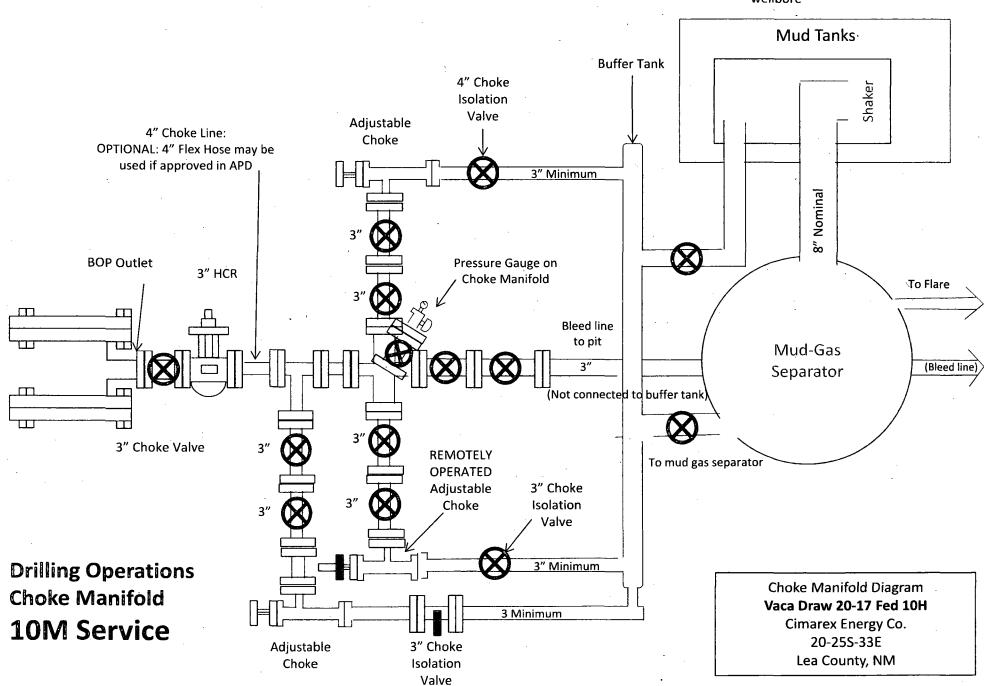
Other proposed operations facets attachment:

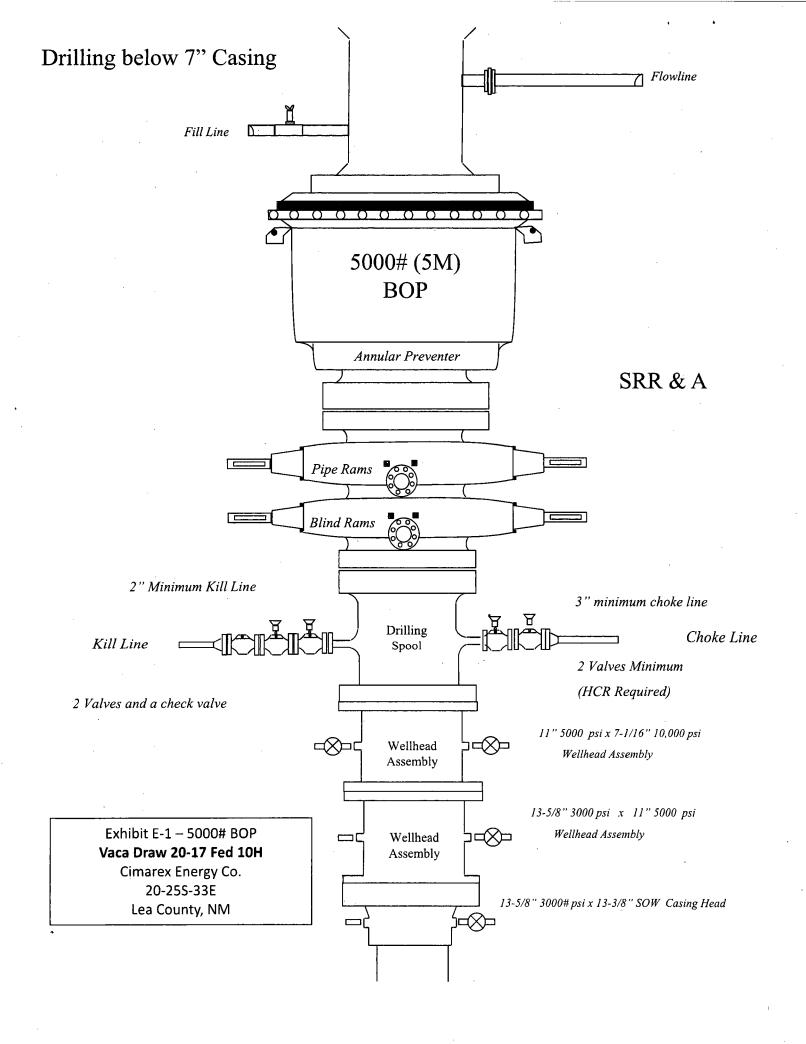
Vaca_Draw_20_17_Fed_10H_AntiCollision_05-05-2017.pdf
Vaca_Draw_20_17_Fed_10H_Drilling_Plan_20171012112355.pdf
Vaca_Draw_20_17_Fed_10H_Flex_Hose_20171012112359.pdf

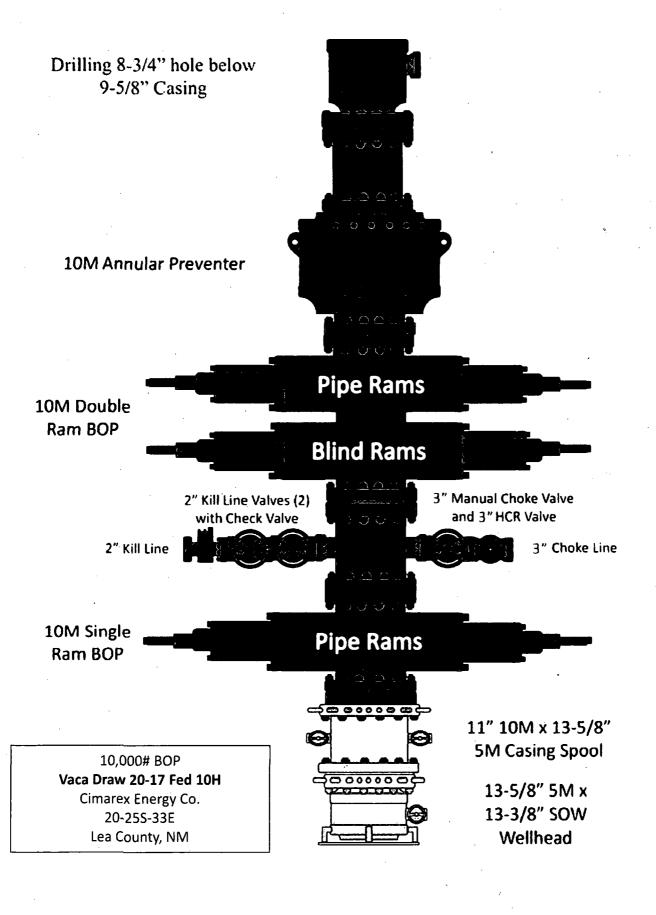
Other Variance attachment:



Mud Tanks 40'-50' from wellbore Mud Tanks 8" Nomina! √To Flare Mud-Gas (Bleed line) Separator







Vaca Draw 20-17 Fed 10H

Casing Assumptions Cimarex Energy Co. 20-25S-33E Lea Cty, NM

Casing Program

Hole Size	Casing Depth From	Casing Depth To	Casing Size	Weight (lb/ft)	Grade	. 11	SF Collapse	SF Burst	SF Tension
14 3/4	0	1034	10-3/4"	40.50	t	вт&С	3.34	6.62	15.02
97/8	0	12479	7-5/8"	29.70	L-80	BT&C	2.48	1.20	1.82
6 3/4	0	11855	5-1/2"	20.00	L-80	LT&C	1.15	1.19	1.87
6 3/4	11855	22125	5"	18.00	P-110	BT&C	1.67	1.69	62.45
			·	BLM	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Exhibit F – Co-Flex Hose

Vaca Draw 20-17 Fed 10H

Cimarex Energy Co.

20-25S-33E

Lea County, NM

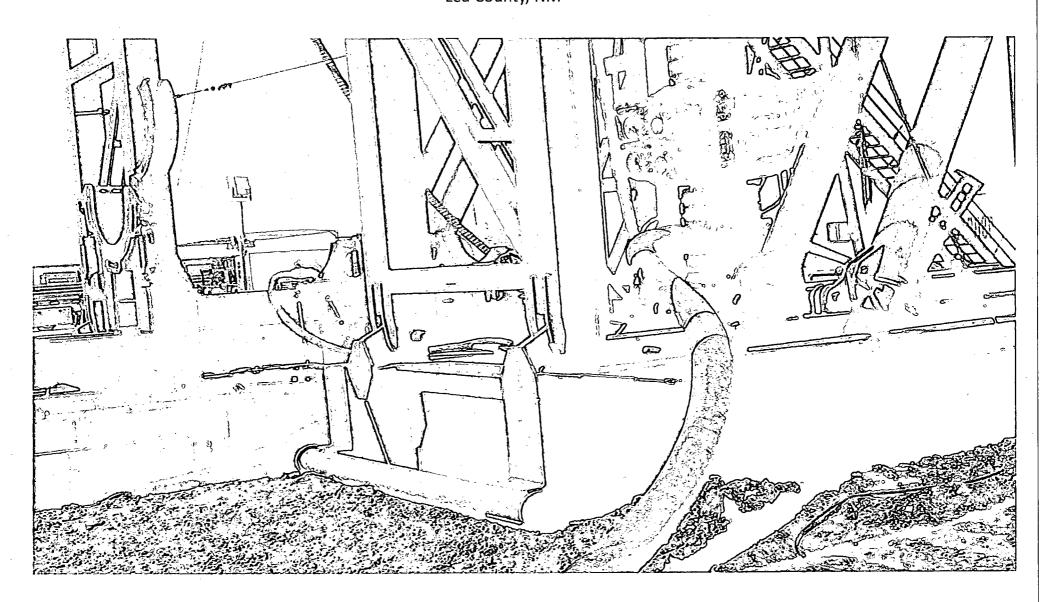


Exhibit F-1 – Co-Flex Hose Hydrostatic Test Vaca Draw 20-17 Fed 10H

Cimarex Energy Co. 20-25S-33E Lea County, NM



Midwest Hose & Specialty, Inc.

INT	ERNAL	. HYDROST	ATIC TEST	REPORT		
Customer:				P.O. Number	:	
	Oderco Inc			odyd-271		
					••	
	· · · · ·	HOSE SPECI	FICATIONS			
1 ''		Steel Armor				
. Cr	oke & K	III Hose	 	Hose Length:	45'ft.	
I.D.	4	INCHES	O.D.	9	INCHES	
WORKING PRES	SSURE	TEST PRESSUR	Ē	BURST PRESSU	RE	
40.000	504	45.000	701		201	
10,000	PSI	15,000	PSI	<u> </u>	PSI	
		COUF	LINGS			
Stem Part N	ο.		Ferrule No.			
	ОКС			ОКС		
	OKC		<u> </u>	окс		
Type of Cou	pling:					
Ì	Swage-l	t				
		PROC	EDURE			
Hos	se assembly	pressure tested wi	th water at ambient	t temperature.		
1		TEST PRESSURE	ACTUAL BURST PRESSURE:			
	15	MIN.		0	PSI	
Hose Assem	bly Seria	al Number:	Hose Serial Number:			
79793				OKC		
Comments:						
Date:		Tested:		Approved:		
3/8/20	11	N.	Jains Jane	feril,	het-	

Lea County, NM

Internal Hydrostatic Test Graph

Customer: Houston

Pick Ticket #: 94260

Midwest Hose & Specialty, Inc.

Hose Specifications

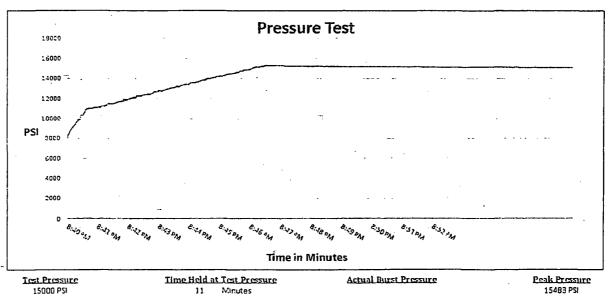
Length CSK ľ.D. ር ር 6.09" Working Pressure Burst Pressure 10000 PSI Scandard Sefety Multiplier Applies

Verification

Type of Fitting 4 1/16 10% Die Size 6.38"

Hose Serial #

Coupling Method Swage Final O.D. 6.25" Hose Assembly Serial #



Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zac Mcconnell

Exhibit F-2 — Co-Flex Hose Vaca Draw 20-17 Fed 10H Cimarex Energy Co. 20-25S-33E Lea County, NM



Midwest Hose & Specialty, Inc.

	Certificate (of Conform	nity		
Customer:			РО		
	DEM		ODYD-271		
	SPECIF	CATIONS			
1 1 1 1		Dated:	,		
	79793		3/8/2011		
<u>.</u>	We hereby cerify that th	ne material ei	unnlied		
	for the referenced purch according to the require order and current indus	nase order to ements of the	be true purchase		
	Supplier: Midwest Hose & Specia 10640 Tanner Road Houston, Texas 77041	ilty, Inc.			
Commer	nts:				
Approved:			Date:		
	Local Bassin.		3/8/2011		



Exhibit F -3— Co-Flex Hose Vaca Draw 20-17 Fed 10H Cimarex Energy Co. 20-25S-33E Lea County, NM

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, harmer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:

5,000 or 10,000 psi working pressure

Test Pressure:

10,000 or 15,000 psi test pressure

Reinforcement:

Multiple steel cables

Cover:

Stainless Steel Armor

Inner Tube:

Petroleum resistant, Abrasion resistant

End Fitting:

API flanges, API male threads, threaded or butt weld hammer

unions, unibolt and other special connections

Maximum Length:

110 Feet

ID:

2-1/2", 3", 3-1/2", 4"

Operating Temperature:

-22 deg F to +180 deg F (-30 deg C to +82 deg C)

P.O. Box 96558 - 1421 S.E. 29th St. Oklahoma City, OK 73143 * (405) 670-6718 * Fax: (405) 670-6816



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

SUPO Data Report

APD ID: 10400013701

Operator Name: CIMAREX ENERGY COMPANY

Well Name: VACA DRAW 20-17 FEDERAL

Well Type: CONVENTIONAL GAS WELL

Submission Date: 05/10/2017

Highlighted data reflects the most

recent changes

Show Final Text

Well Number: 10H

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? NO

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Vaca_Draw_20_17_Fed_10H_Access_Road_ROW_05-05-2017.pdf

New road type: COLLECTOR

Length: 785

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 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:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

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,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 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Vaca_Draw_20_17_Fed_10H_Mile_radius_and_Existing_wells_05-05-2017.pdf

Existing Wells description:

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:

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

Vaca_Draw_20_17_Fed_Battery_Layout_05-05-2017.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 longitude:

Source latitude: Source datum:

Water source permit type: WATER RIGHT

Permit Number:

Source land ownership: STATE

Water source transport method: PIPELINE, 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:

Vaca Draw 20 17 Fed 10H Drlg water route 20170908121704.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.):

Well Production type:

Completion Method:

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

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. Caliche will be sued form a pit located in Sec 3-26S-33E, per the Surface Use Agreement we are required to use this 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:

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?

Well Name: VACA DRAW 20-17 FEDERAL

Well Number: 10H

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:

Vaca_Draw_20_17_Fed_10H_Wellsite_Layout_05-05-2017.pdf

Comments:

Well Name: VACA DRAW 20-17 FEDERAL Well Number: 10H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: VACA DRAW SUPER PAD

Multiple Well Pad Number: 2

Recontouring attachment:

Vaca_Draw_20_17_Fed_10H_Interim_Reclaim_05-05-2017.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 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.

Wellpad long term disturbance (acres): 6.903

Access road long term disturbance (acres): 0.758

Pipeline long term disturbance (acres): 39.751377

Other long term disturbance (acres): 4.367

Total long term disturbance: 51.779377

Wellpad short term disturbance (acres): 6.903

Access road short term disturbance (acres): 0.758

Pipeline short term disturbance (acres): 0.4275482

Other short term disturbance (acres): 0

Total short term disturbance: 8.088549

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:

Existing Vegetation Community at the road:

Operator Name: CIMAREX ENERGY COMPANY	
Well Name: VACA DRAW 20-17 FEDERAL	Well Number: 10H
Existing Vegetation Community at the road attach	ment:
Existing Vegetation Community at the pipeline:	
Existing Vegetation Community at the pipeline atta	achment:
Existing Vegetation Community at other disturban	ices:
Existing Vegetation Community at other disturban	nces attachment:
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	4
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	

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:			
Weed treatment plan description: N/A	•		
Weed treatment plan attachment:			
Monitoring plan description: N/A			
Monitoring plan attachment:			
Success standards: N/A		J.	
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:			

Well Number: 10H

USFS Ranger District:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: VACA DRAW 20-17 FEDERAL

USFS Forest/Grassland:

Well Name: VACA DRAW 20-17 FEDERAL Well Number: 10H

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 (Jeff Robertson) and Cimarex (Barry Hunt) on December 8, 2016. 500' X 560' pad (From #2H 190' north, 180' west, 370' south, 320' east). Top soil East. Interim reclamation: All sides. Access road from NW corner of pad, west, to the NE corner of the west pad. Vaca Draw 20-17 Federal off-site battery-Center: 1055 FSL & 1052 FWL, Section 20, T. 25 S., R. 33 E. (450' north/south X 400' east/west pad). Top soil west. Access road from SE corner, south to tie-in at proposed east/west road of Vaca Draw 20-17 Federal East half pad to west half pad.

Other SUPO Attachment

Vaca_Draw_20_17_Fed_10H_Gas_lift_Flow_line_ROW_05-05-2017.pdf

Vaca Draw 20 17 Fed 10H_Temp_water_route_05-05-2017.pdf

Vaca_Draw_20_17_Fed_10H_Public_Access_05-05-2017.pdf

Vaca_Draw_20_17_Fed_10H_Road_Description_05-05-2017.pdf

Vaca_Draw_20_17_Fed_10H_SUPO_05-05-2017.pdf

Vaca Draw_20_17_Fed_Battery_Gas_Sales_ROW_05-05-2017.pdf

Vaca Draw 20 17 Fed Battery Powerline ROW 05-05-2017.pdf

Vaca_Draw_20_17_Fed_Battery_Road_ROW_05-05-2017.pdf

Vaca_Draw_20_17_Fed_Battery_SWD_ROW_05-05-2017.pdf

CHIANEX ENERGY CO:	VACA DRAW 20-17 FEDERAL 2H, 3H, 4H	, 511, 1011, 1111, 1211, 1011, 1711, 1	BII, 2311, 2411, 2311 & 2011
SECTION CORNER	DESCRIPTION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
NW COR. SEC. 20, T25S, R33E	2" IRON PIPE W/ BRASS CAP, 1918	N 32 ^o 07'24.04"	W 103°36'10.23"
N 1/4 COR. SEC. 20, T25S, R33E	1" IRON PIPE W/ BRASS CAP, 1918	N 32°07'24.02"	W 103°35'39.47"
NE COR. SEC. 20, T25S, R33E	2" IRON PIPE W/ BRASS CAP, 1913	N 32°07'24.02"	W 103°35'08.74"
E 1/4 COR. SEC. 20, T25S, R33E	1" IRON PIPE W/ BRASS CAP, 1913	N 32°06'57.88"	W 103°35'08.76"
W 1/4 COR. SEC. 20, T25S, R33E	1" IRON PIPE W/ BRASS CAP, 1913	N 32°06'57.92"	W 103°36'10.23"
SW COR. SEC. 20, T25S, R33E	2" IRON PIPE W/ BRASS CAP	N 32°06'31.79"	W 103°36'10.25"
S 1/4 COR. SEC. 20, T25S, R33E	1" IRON PIPE W/ BRASS CAP	N 32°06'31.80"	W 103°35'39.51"
SE COR. SEC. 20, T25S, R33E	2" IRON PIPE W/ BRASS CAP	N 32°06'31.76"	W 103°35'08.77"

CIMAREX ENERGY COVACA DRAW 20-17 FEDERAL 2H, 3H, 4H, 9H, 10H, 11H, 12H, 16H, 17H, 18H, 23H, 24H, 25H &			
NUMBER	STATION	LATITUDE (NAD 83)	LONGITUDE (NAD 83)
BEGIN	0+00	N 32°06'37.39"	W 103°35'59.27"
END	7+85.03	N 32°06'37.39"	W 103°35'50.14"

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND
THE ACTUAL SURVING ON THE GROUND UPON WHICH IT
IS BASED WERE PERFORMED BY BROR UNDER MY
DIRECT SUPERVISION. THAT IT AMPRESIONS BILLE FOR
THIS SURVEY, THAT THIS SURVEY WERE THE
MINIMUM STAMPARS HAR SURVEYING IN NEW
MEXICU, AND HAVE THE OND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELLIF.

23/82

ONAL

SKEET

FILE: 61381-B

Sheet 2 of 2

NOTES:

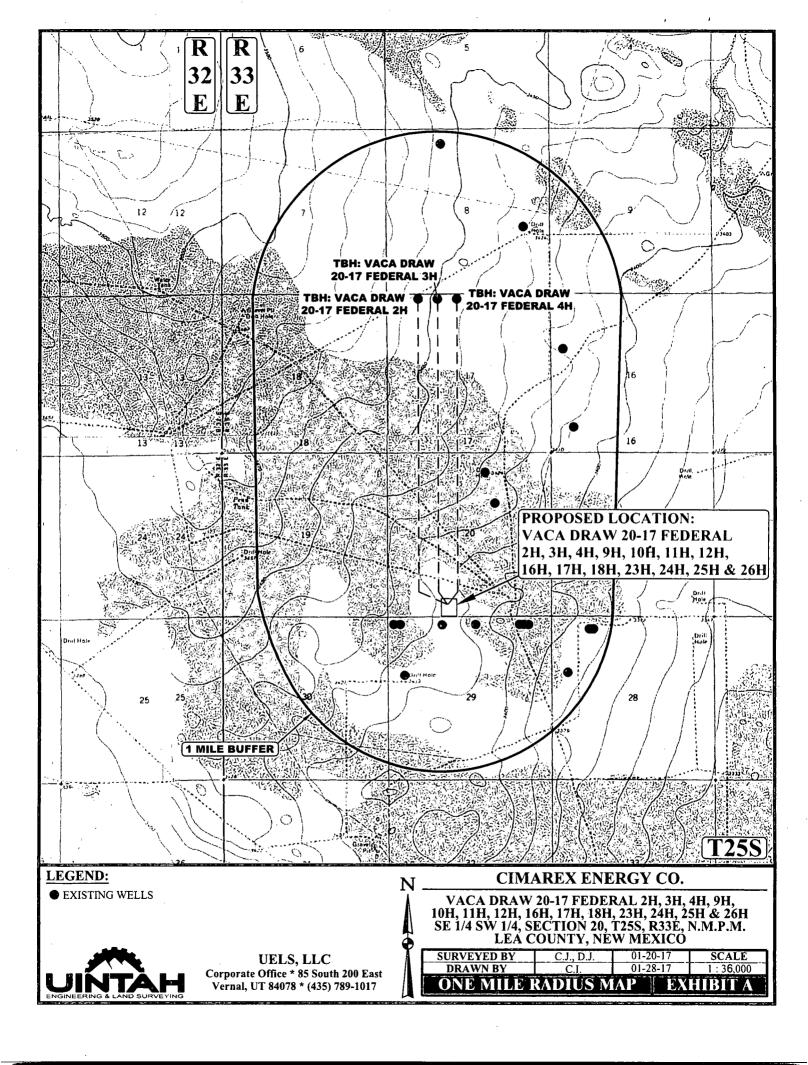
CIMAREX ENERGY CO.

VACA DRAW 20-17 FEDERAL 2H, 3H, 4H, 9H, 10H, 11H, 12H, 16H, 17H, 18H, 23H, 24H, 25H & 26H SECTION 20, T25S, R33E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	C.J., D.J.	01-20-17	SCALE
DRAWN BY	B.D.H.	02-04-17	N/A
(A)	CCESS ROA	D13+0+43	



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017





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

	PWD Data Report
	01/02/2018

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

Injection well mineral owner:

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	t:
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 Dissethat of the existing water to be protected?	olved Solids (TDS) concentration equal to or less than
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:	
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 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:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	
•	

. ..

•

•

Bond Info Data Report

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

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: