В	NTERIOR GEMENT RTS ON WI drill or to re D) for such p	enter an roposals.		FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM98192 6. If Indian, Allottee or Tribe Name		
SUBMIT IN	TRIPLICATE - Other inst	ructions on	page 2	Bs oc	7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well Gas Well Oth	her		APRI	1	8. well name and no.	ATE FED COM 1H
2. Name of Operator DEVON ENERGY PRODUCT	Contact: , ION CONE-Mail: jennifer.har	JENNIFER H ms@dvn.com	ARM RECE		9. API Well No. 30-025-43196-0)0-X1
3a. Address P O BOX 250 ARTESIA, NM 88201		3b. Phone No Ph: 405-55			10. Field and Pool or 1 WC-025 G07 S	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description))			11. County or Parish,	State
Sec 16 T23S R32E SWNW 2	590FNL 614FWL				LEA COUNTY,	NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
X Notice of Intent	C Acidize	🗖 Dee	pen	Product	tion (Start/Resume)	🗖 Water Shut-Off
_	Alter Casing	🗖 Hyd	raulic Fracturing	🗖 Reclam	ation	Well Integrity
Subsequent Report	Casing Repair	🗖 Nev	Construction	🗖 Recom	plete	🔀 Other Change to Original A
Final Abandonment Notice	Change Plans		and Abandon		rarily Abandon	PD
	Convert to Injection	🖸 Plug	Back	🔲 Water I	Disposal	
Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for f Devon Energy Production Co. intermediate casing down to 8 Delaware producers, primarily 6,960 to 8,570. Setting our in	I operations. If the operation respondent notices must be file inal inspection. ., L.P. (Devon) respectfully 1750 due to the close prox v the Tomcat wells. The To	aults in a multipled only after all or requests to imity of depted omcat wells h	e completion or reco requirements, includ have the option t tion from multipl ave perforations	mpletion in a ing reclamatio to move e active varying fro	new interval, a Form 316 n, have been completed a	0-4 must be filed once
loss zones. This will allow us to production hole, allowing us to the lateral. This is a contingen Thank you.	to increase mud weight as b better handle any well co ncy plan based on final dril	necessary for ntrol issues	or well conditions	in the	sbad Fiel OCD Ho	d Office bbs
 I hereby certify that the foregoing is Con 	s true and correct. Electronic Submission #4 For DEVON ENERC nmitted to AFMSS for proce	SY PRODUCT	ON COM LP, sen	it to the Hob	bs	
Name (Printed/Typed) JENNIFE					MPLIANCE ANALY	ST
Signature (Electronic S	Submission)		Date 03/20/20	019		
	THIS SPACE FO	R FEDERA		OFFICE U	SE	
Approved By_LONG_VO			TitlePETROLE	UM ENGIN	EER	Date 03/21/201
nditions of approval, if any, are attache tify that the applicant holds legal or equ tich would entitle the applicant to condu	uitable title to those rights in the		Office Hobbs			
tle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	crime for any pe to any matter w	rson knowingly and	willfully to m	ake to any department or	agency of the United
structions on page 2) ** BLM REV	ISED ** BLM REVISED) ** BLM RI	EVISED ** BLN	I REVISEI	D ** BLM REVISE	D ** Kaza

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	Devon Energy Production Company LP
LEASE NO.:	NMNM098192
WELL NAME & NO.:	Big Cat 16 9 State Fed Com 1H
SURFACE HOLE FOOTAGE:	2590' FNL & 614' FWL
BOTTOM HOLE FOOTAGE	330' FNL & 660' FWL
LOCATION:	Section 16, T. 23 S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico



H2S		r No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	C Low		High High
Variance	✓ None	Flex Hose	C Other
Wellhead	Conventional		🕫 Both
Other	☐ 4 String Area	Capitan Reef	l ⊓ WIPP
Other	Fluid Filled	☐ Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	COM	🔽 Unit

All Previous COAs Still Apply

A. CASING

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 1. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - \boxtimes Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- A. CASING
- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. DRILLING MUD

. .

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

Devon Energy, Big Cat 16-9 State Fed Com 1H

1. Geologic Formations

TVD of target	10,625'	Pilot hole depth	N/A
MD at TD:	17,915'	Deepest expected fresh water:	

Basin

. .

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1185		
Salado	1527		
Delaware	4767		
L.Brushy	8362		
1st BSPG Lime	8668		
1st BSPG Sand	9824		
2nd BSPG Lime	10137		
2nd BSPG Sand	10424		
2nd BSPG Target	10633		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon - Internal

Devon Energy, Big Cat 16-9 State Fed Com 1H

Hole Size	Casing	Interval	Csg.	Weight	Veight Grade	Conn	SF	SF Burst	SF
	From	To	Size	(lbs)			Collapse		Tension
10.05%	0	4,500'	9.625"	40	J-55	BTC	1.15	1.77	4.10
12.25"	4,500	8,750'	9.625"	40	HCK-55	BTC	1.18	1.32	3.75
	<u> </u>	•		BLM Min	imum Safet	y Factor	1.125	1.00	1.6 Dry 1.8 Wet

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

3. Mud Program

3. Mud Program Depth Type Weight (ppg) Viscosity Water Loss Converts of the second se	All casing s	trings will be	e tested in accordance v	vith Onshore Oil a	nd Gas Order #	2 III.B.1.h	~ enough
	····		T		- 1	٩,	, (* * * * 7
		<u> </u>	Туре	Weight (ppg)	Viscosity	Water Loss	
	1,245'	8,750'	Cut/Saturated Brine	9.4 -10.5	28-34	N/C	- quitor

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	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
x	Will run GR/CNL from TD 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? If yes, explain
	Coring? If yes, explain
	We plan to conduct whole cores through the Leonard Formation

Add	litional logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

2 **Drilling Plan**

Devon - Internal