

SURFACE USE PLAN

APR 25 2016

Devon Energy Production Company, L.P.

RECEIVED**The on-site inspection for these projects was performed on 4/8/2015, by CEHMM****GREEN WAVE 20-29 FED 71H****1. Existing Roads:**

- a. The well site and elevation plat for the proposed well are reflected on the "Site Map". The well was staked by Madron Surveying, Inc.
- b. All roads into the location are depicted on the "Vicinity Map". The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.
- c. Directions to Location: From the intersection of State Road 128 and County Road #2 (Battle Axe Road) go South and West on Battle Axe Road approximately 12.2 miles to a lease road on Left (South) turn South go approximately 0.6 miles, road turns Left (East) turn East go approximately 1.8 miles to a lease road on Right (South) turn South on lease road go approximately 2.5 miles to a trail road on Left (East) turn East on trail road, go approximately 0.1 miles, location on Left (North) of road 220 feet.

2. New or Reconstructed Access Roads:

- a. The "Site Map" shows new constructed access road, which will be approximately 68 LF from the existing Lease road.
- b. The maximum driving width of the access road will be 14 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. The road will be crowned and ditched with 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
- c. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

The attached "One Mile Radius Map" shows all existing and proposed wells within a one-mile radius of the proposed location.

4. Location of Existing and/or Proposed Production Facilities:

- a. In the event the well is found productive, the Green Wave CTB would be utilized and shared, and the necessary production equipment will be installed at the well site. This facility is located in the NESW of Sec 20-T26S-R34E. See "Green Wave CTB" plat.
- b. A 6" poly flex production line and a 6" gas lift line buried in the same trench from Green Wave 20-29 Fed 71H to Green Wave Central Tank Battery; the approximate distance of the lateral connection will be: 2725.03 feet. See "Flowline Plat".

- c. See "Interim Reclamation Diagram"
- d. If necessary, the well will be operated by means of an electric prime mover. If electric power poles are needed, a plat and a sundry notice will be filed with your office.
- e. All flow lines will adhere to API standards.
- f. If the well is productive, rehabilitation plans are as follows:
 - i. A closed loop system will be utilized.
 - ii. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

5. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads described and depicted on the "Vicinity Map". On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

6. Construction Materials:

Obtaining caliche: One primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means caliche will be obtained from the actual well site. Actual amounts will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- b. Subsoil is removed and stockpiled within the surveyed well pad.
- c. When caliche is found, material will be stock piled within the pad site to build the location and road.
- d. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- e. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced.
- f. Neither caliche, nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.

In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or land.

7. Methods of Handling Waste Material:

- a. Drill cuttings will be safely contained in a closed loop system and disposed of properly at a NMOCD approved disposal site.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier will pick up salts remaining after completion of well, including broken sacks.

- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be sent to a closed loop system. Water produced during completion will be put into a closed loop system. Oil and condensate produced will be put into a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO

8. Ancillary Facilities: No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout

- a. The Rig Location Layout attachment shows the proposed well site layout and pad dimensions.
- b. The Rig Location Layout attachment proposes location of sump pits and living facilities.
- c. Mud pits in the active circulating system will be steel pits.
- d. A closed loop system will be utilized.
- e. If a pit or closed loop system is utilized, Devon will provide a copy of the Design Plan to the BLM.

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.
- d. All disturbed areas not needed for active support of production operations will undergo interim reclamation. The portions of the cleared well site not needed for operational and safety purposes will be recontoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Topsoil will be respread over areas not needed for all-weather operations.

11. Surface Ownership

- a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- b. The proposed road routes and the surface location will be restored as directed by the BLM.

12. Other Information:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sage bush, yucca and miscellaneous weeds. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III Survey for cultural resources associated with their project within the BLM office in Carlsbad, New Mexico.

13. Bond Coverage:

Bond Coverage is Nationwide; Bond # is CO-1104 & NMB-000801.

Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Shelley Klingler
Devon Energy Production Company, L.P.
333 W. Sheridan
Oklahoma City, OK 73102-5010
(405) 228-8882 (office)
(405) 206-7917 (Cellular)

Don Mayberry - Superintendent
Devon Energy Production Company, L.P.
Post Office Box 250
Artesia, NM 88211-0250
(575) 748-3371 (office)
(575) 746-4945 (home)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently 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 Devon Energy Production Company, L.P. 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.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 26th day of June, 2015

Printed Name: Linda Good

Signed Name: Linda Good

Position Title: Regulatory Compliance Specialist

Address: 333 W. Sheridan, OKC OK 73102

Telephone: (405)-552-6558



Bowen, Andrea <abowen@blm.gov>

Fwd: [BLM Objectionable Words] FW: GREENWAVE 20-29 FED 71H & GREENWAVE 20-17 FED 28H - PILOT HOLE

Admin, BLM SPAM <blm-spam-admin@doi.gov>
To: Andrea Bowen <abowen@blm.gov>

Wed, Oct 14, 20

This email was blocked by the spam filter for objectionable words and after review is being released. Please do not reply back to this email as it will go to the Spam box.

IT Security
Continuous Monitoring
BLM, IRM, IT Security Division (WO-840)

----- Forwarded message -----

From: **Good, Linda** <Linda.Good@dvn.com>
Date: Thu, Oct 8, 2015 at 5:05 AM
Subject: [BLM Objectionable Words] FW: GREENWAVE 20-29 FED 71H & GREENWAVE 20-17 FED 28H - PILOT HOLE
To: Andrea Bowen <abowen@blm.gov>

Good morning Andrea,

Attached are the revisions you requested. Please see email below from the engineer. Let me know if you need anything else.

Thank you,

Linda Good
Regulatory Compliance Specialist
Devon Energy Corporation
Devon Energy Center-Tower - OKDEC 18.532
333 West Sheridan Avenue Oklahoma City OK 73102-5015
405-552-6558
linda.good@dvn.com



From: Stuart, Spencer
Sent: Wednesday, October 07, 2015 5:40 PM
To: Good, Linda <Linda.Good@dvn.com>
Cc: Sherrod, Jenae <Jenae.Sherrod@dvn.com>
Subject: RE: Voice Mail (44 seconds) - GREENWAVE 20-29 FED 71H & GREENWAVE 20-17 FED 28H - PILOT HOLE

Linda,

Sigma flow says the Green Wave 20-29 Fed 71H does not indicate a pilot hole so that can be removed. As for the Green Wave 20-17 Fed 28H the mud weight to drill the pilot hole will be between 8.5-9.3 ppg

I have made the corrections and attached them.

Thanks,
spencer

**Well : GREEN WAVE 20-29 FED 71H**[Overview](#) | [Well Data](#) | [Procedures](#) | [Related Entities](#) | [Work](#) | [Documents](#) | [Audit Trail](#)**Summary**

Name : * GREEN WAVE 20-29 FED 71H
 Team Name : * Rattlesnake
 Active location : Yes
 Team Goal Year : 2015
 Lifecycle Phase : APD Submitted FED
 Objective Formation : * Bone Spring, Third Bone Spring Sandstone
 Proposed location type : * De-Risking
 Well direction type : Horizontal
 Type of Well : Oil
 Pilot Hole Required : **No pilot hole**
 Pilot Hole Measured Depth (MD) :
 SHL Footage - FNL : 2345
 SHL Footage - FSL :
 SHL Footage - FEL :
 SHL Footage - FWL : 5
 SHL Section : 20
 SHL Township/Survey : 26S
 SHL Range/Block : 34E
 SHL County : LEA
 BHL Footage - FNL :
 BHL Footage - FSL : 330
 BHL Footage - FEL :
 BHL Footage - FWL : 330
 BHL Section : 29
 BHL Township/Survey : 26S
 BHL Range/Block : 34E
 Estimated Revenue Interest : 43.75000000
 Estimated Working Interest : 50.00000000
 Type of lease : Federal
 Lateral Length (ft) : *

**Well : Green Wave 20-17 Fed 28H**[Overview](#) | [Well Data](#) | [Procedures](#) | [Related Entities](#) | [Work](#) | [Documents](#) | [Audit Trail](#)**Summary**

Name : * Green Wave 20-17 Fed 28H
 Team Name : * Rattlesnake
 Active location : Yes
 Team Goal Year : 2015 Q1
 Lifecycle Phase : APD Submitted FED
 Objective Formation : * Bone Spring, Leonard Shale
 Proposed location type : * Contingent
 Well direction type : Horizontal
 Type of Well : Oil
 Pilot Hole Required : Pilot hole
 Pilot Hole Measured Depth (MD) : 10780
 SHL Footage - FNL : 2630
 SHL Footage - FSL :
 SHL Footage - FEL : 330
 SHL Footage - FWL :
 SHL Section : 20
 SHL Township/Survey : 26S
 SHL Range/Block : 34E
 SHL County : LEA
 BHL Footage - FNL : 330
 BHL Footage - FSL :
 BHL Footage - FEL : 380
 BHL Footage - FWL :
 BHL Section : 17
 BHL Township/Survey : 26S
 BHL Range/Block : 34E
 Estimated Revenue Interest : 43.75000000
 Estimated Working Interest : 50.00000000
 Type of lease : Federal
 Lateral Length (ft) : *

Procedures

From: Good, Linda
Sent: Tuesday, October 06, 2015 12:50 PM
To: Stuart, Spencer <Spencer.Stuart@dnv.com>
Cc: Sherrod, Jenae <Jenae.Sherrod@dnv.com>
Subject: FW: Voice Mail (44 seconds) - GREENWAVE 20-29 FED 71H & GREENWAVE 20-17 FED 28H - PILOT HOLE

Spencer,

Per our conversation: Attached is the voicemail from Andrea Bowen (Geologist) with the BLM. She said that both of these wells have a pilot hole but are missing the mud weight. I have attached the Drilling Plans for both wells. Please send me the revisions and I will forward on to Andrea.

Thank you,

Linda Good
Regulatory Compliance Specialist
Devon Energy Corporation
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333 West Sheridan Avenue Oklahoma City OK 73102-5015
405-552-6558
linda.good@dnv.com



From: Microsoft Outlook On Behalf Of Unavailable
Sent: Tuesday, October 06, 2015 11:31 AM
To: Good, Linda <Linda.Good@dnv.com>
Subject: Voice Mail (44 seconds)

You received a voice mail from Unavailable at 915752345982.

Caller-Id: 915752345982

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

2 attachments

Drilling Plan_Green wave 20-29 Fed Com 71H_PH removed.pdf
125K

DP_Green Wave 20-17 Fed 28H pilot hole.pdf
130K