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

Sundry Print Report

06/06/2023

Well Name: VAN DOO DAH 28-33 FED COM	**Well Location:** T25S / R32E / SEC 28 / NWNW /	**County or Parish/State:**
Well Number: 711H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMLC062300	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002549510	**Well Status:** Approved Application for Permit to Drill	**Operator:** DEVON ENERGY PRODUCTION COMPANY LP

LONG VO Digitally signed by LONG VO Date: 2023.06.06 14:39:03 -05'00'

Notice of Intent

Sundry ID: 2733059

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/31/2023

Time Sundry Submitted: 07:29

Date proposed operation will begin: 05/26/2023

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well formation on the subject well. Please see attached revised C102, Drill plan, directional plan. Permitted TVD/MD: 12124/22291- WC-025 G-08 S253216D;UPPER WOLFCAMP Proposed TVD/MD: 11475/21735- WC-025 G-08 S253235G;LOWER BONE SPRING

NOI Attachments

Procedure Description

Van_Doo_Dah_28_33_Fed_Com_711H_PLAT_BS_20230526091310.pdf

Van_Doo_Dah_28_33_Fed_Com_711H_Directional_Plan_05_24_23_20230526091308.pdf

Van_Doo_Dah_28_33_Fed_Com_711H_20230526091309.pdf

Well Name: VAN DOO DAH 28-33 FED COM

Well Location: T25S / R32E / SEC 28 / NWNW /

County or Parish/State:

Well Number: 711H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062300

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549510

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CHELSEY GREEN

Signed on: MAY 26, 2023 09:12 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City **State:** OK

Phone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LEASE NO.:	**NMLC062300**
LOCATION:	Section 28, T.25 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Van Doo Dah 28-33 Fed Com 711H**
SURFACE HOLE FOOTAGE:	475'/N & 160'/W
BOTTOM HOLE FOOTAGE	20'/S & 330'/W
ATS/API ID:	**3002549510**
APD ID:	**10400064996**
Sundry ID:	**2733059**

COA

H2S	Yes		
Potash	None		
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: Int 1	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1020 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **8-5/8** 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 is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus after primary cementing stage. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to the BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
      Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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)

☒ 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) 689-5981

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.

2. Wait on cement (WOC) for Potash Areas: 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 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin

after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. 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.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

LVO 6/6/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	97903	WC-025 G-08 S253235G;LOWER BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	VAN DOO DAH 28-33 FED COM	711H

[7] OGRID No.	[8] Operator Name	[9] Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3371.7

[10] Surface Location

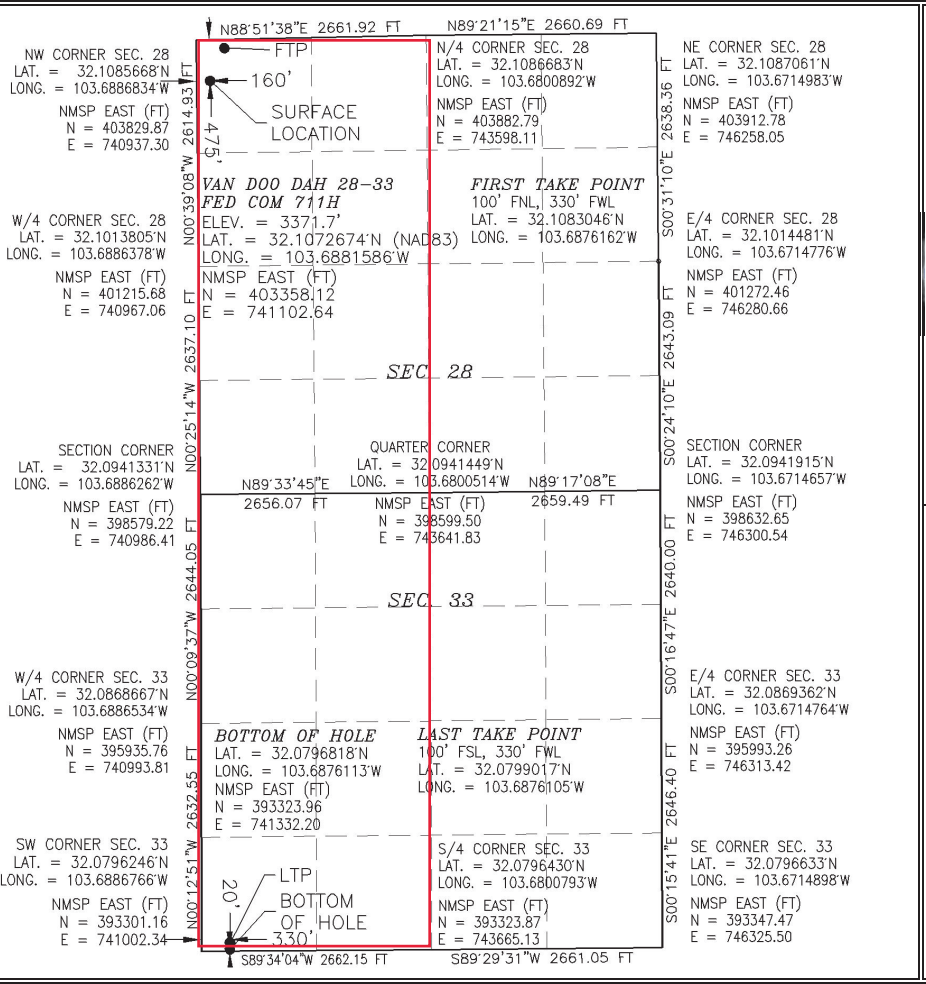
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	25 S	32 E		475	NORTH	160	WEST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	25 S	32 E		20	SOUTH	330	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Chelsey Green 05/26/2023

Signature Date

CHELSEY GREEN

Printed Name

CHELSEY.GREEN@DVN.COM

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 1, 2020

Date of Survey

Signature and Seal of Professional Surveyor:

NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

Certificate Number: EDMUND F. JARAMILLO, LS 12797
SURVEY NO. 6889C

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	VAN DOO DAH 28-33 FED COM	711H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	28	25S	32E		48 FNL		330 FWL		LEA

Latitude	Longitude	NAD
32.10835692	-103.68761620	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	28	25S	32E		100	NORTH	330	WEST	LEA

Latitude	Longitude	NAD
32.1083046	103.6876162	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	33	25S	32E		100	SOUTH	330	WEST	LEA

Latitude	Longitude	NAD
32.0799017	103.6876105	83

Is this well the defining well for the Horizontal Spacing Unit? YES

Is this well an infill well? NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Van Doo Dah 28-33 Fed Com 711H

1. Geologic Formations

TVD of target	11475	Pilot hole depth	N/A
MD at TD:	21735	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	995		
Salt	1380		
Lamar	4625		
Delaware	4625		
Cherry Canyon	5580		
Brushy Canyon	7170		
1st Bone Spring Lime	8680		
Bone Spring 1st	9665		
Bone Spring 2nd	10310		
3rd Bone Spring Lime	10805		
Bone Spring 3rd	11415		

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

Van Doo Dah 28-33 Fed Com 711H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	1020	0	1020
9 7/8	8 5/8	32	P110	TLW	0	10335	0	10335
7 7/8	5 1/2	17	P110	BTC	0	21735	0	11475

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	777	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	590	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	590	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	65	9835	9	3.27	Lead: Class H /C + additives
	1428	10942	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

Van Doo Dah 28-33 Fed Com 711H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested to run a 5 M annular on a 10M system

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	8.5-9

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

Logging, 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 Rpeort and sbumitted 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.

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5370
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren 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.	
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.
   a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
   a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

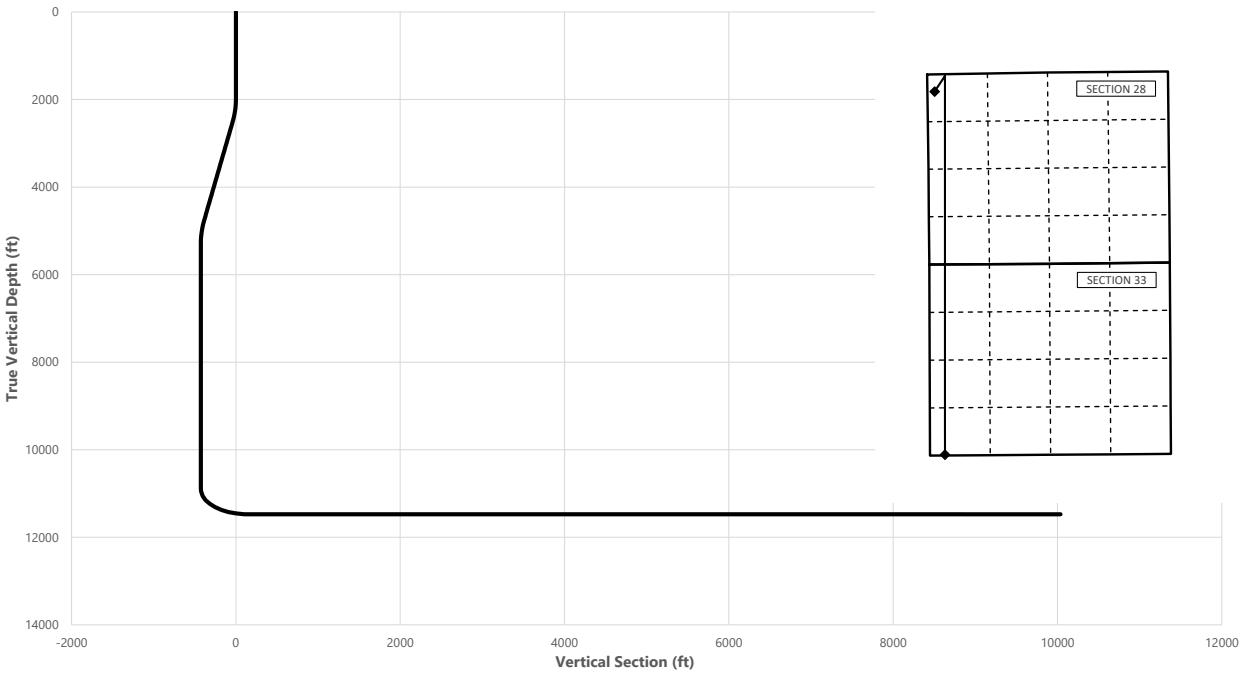
X Directional Plan

_____ Other, describe

Well: Van Doo Dah 28-33 Fed Com 711H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	28.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	28.00	2497.47	38.43	20.43	-37.95	1.00	Hold Tangent
4814.62	10.00	28.00	4776.92	393.31	209.13	-388.43	0.00	Drop to Vertical
5314.62	0.00	28.00	5274.39	431.74	229.56	-426.38	2.00	Hold Vertical
10942.28	0.00	180.00	10902.04	431.74	229.56	-426.38	0.00	KOP
11842.28	90.00	180.00	11475.00	-141.22	229.56	146.43	10.00	Landing Point
21735.22	90.00	180.00	11475.00	-10034.16	229.56	10036.79	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	0.00	0.00
Salt	1380.00	1380.00
Lamar	4660.36	4625.00
Delaware	4660.36	4625.00
Cherry Canyon	5620.23	5580.00
Brushy Canyon	7210.23	7170.00
1st Bone Spring Lime	8720.23	8680.00
Bone Spring 1st	9705.23	9665.00
Bone Spring 2nd	10350.23	10310.00
3rd Bone Spring Lime	10845.23	10805.00
Bone Spring 3rd / Point of Penetratic	11577.72	11415.00
EXIT	21655.22	11475.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.1072	-103.6882	475' FNL, 160' FWL of Sec 28 in T25S, R32E
KOP	10942.28	10902.04	32.1084	-103.6875	48' FNL, 330' FWL of Sec 28 in T25S, R32E
Point of Penetration	11577.72	11415.00	32.1083	-103.6876	100' FNL, 330' FWL of Sec 28 in T25S, R32E
Exit	21655.22	11475.01	32.0799	-103.6876	100' FSL, 330' FWL of Sec 33 in T25S, R32E
BHL	21735.22	11475.00	32.0796	-103.6877	20' FSL, 330' FWL of Sec 33 in T25S, R32E

devon

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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	28.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	28.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	28.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	28.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	28.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	28.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	28.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	28.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	28.00	900.00	0.00	0.00	0.00	0.00	
995.00	0.00	28.00	995.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	28.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	28.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	28.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	28.00	1300.00	0.00	0.00	0.00	0.00	
1380.00	0.00	28.00	1380.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	28.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	28.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	28.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	28.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	28.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	28.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	28.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	28.00	2099.98	1.54	0.82	-1.52	2.00	
2200.00	4.00	28.00	2199.84	6.16	3.28	-6.09	2.00	
2300.00	6.00	28.00	2299.45	13.86	7.37	-13.68	2.00	
2400.00	8.00	28.00	2398.70	24.62	13.09	-24.31	2.00	
2500.00	10.00	28.00	2497.47	38.43	20.43	-37.95	1.00	Hold Tangent
2600.00	10.00	28.00	2595.95	53.76	28.58	-53.09	0.00	
2700.00	10.00	28.00	2694.43	69.09	36.74	-68.23	0.00	
2800.00	10.00	28.00	2792.91	84.42	44.89	-83.38	0.00	
2900.00	10.00	28.00	2891.39	99.76	53.04	-98.52	0.00	
3000.00	10.00	28.00	2989.87	115.09	61.19	-113.66	0.00	
3100.00	10.00	28.00	3088.35	130.42	69.35	-128.80	0.00	
3200.00	10.00	28.00	3186.83	145.75	77.50	-143.94	0.00	
3300.00	10.00	28.00	3285.31	161.09	85.65	-159.08	0.00	
3400.00	10.00	28.00	3383.79	176.42	93.80	-174.23	0.00	
3500.00	10.00	28.00	3482.27	191.75	101.96	-189.37	0.00	
3600.00	10.00	28.00	3580.75	207.08	110.11	-204.51	0.00	
3700.00	10.00	28.00	3679.23	222.41	118.26	-219.65	0.00	
3800.00	10.00	28.00	3777.72	237.75	126.41	-234.79	0.00	
3900.00	10.00	28.00	3876.20	253.08	134.56	-249.94	0.00	
4000.00	10.00	28.00	3974.68	268.41	142.72	-265.08	0.00	
4100.00	10.00	28.00	4073.16	283.74	150.87	-280.22	0.00	
4200.00	10.00	28.00	4171.64	299.08	159.02	-295.36	0.00	
4300.00	10.00	28.00	4270.12	314.41	167.17	-310.50	0.00	
4400.00	10.00	28.00	4368.60	329.74	175.33	-325.64	0.00	
4500.00	10.00	28.00	4467.08	345.07	183.48	-340.79	0.00	
4600.00	10.00	28.00	4565.56	360.40	191.63	-355.93	0.00	
4660.36	10.00	28.00	4625.00	369.66	196.55	-365.07	0.00	Lamar, Delaware
4700.00	10.00	28.00	4664.04	375.74	199.78	-371.07	0.00	
4800.00	10.00	28.00	4762.52	391.07	207.93	-386.21	0.00	
4814.62	10.00	28.00	4776.92	393.31	209.13	-388.43	0.00	Drop to Vertical
4900.00	8.29	28.00	4861.21	405.29	215.50	-400.26	2.00	
5000.00	6.29	28.00	4960.40	416.50	221.46	-411.33	2.00	
5100.00	4.29	28.00	5059.97	424.64	225.79	-419.37	2.00	
5200.00	2.29	28.00	5159.80	429.72	228.48	-424.38	2.00	
5300.00	0.29	28.00	5259.77	431.71	229.54	-426.34	2.00	
5314.62	0.00	28.00	5274.39	431.74	229.56	-426.38	2.00	Hold Vertical
5400.00	0.00	180.00	5359.77	431.74	229.56	-426.38	0.00	
5500.00	0.00	180.00	5459.77	431.74	229.56	-426.38	0.00	
5600.00	0.00	180.00	5559.77	431.74	229.56	-426.38	0.00	
5620.23	0.00	180.00	5580.00	431.74	229.56	-426.38	0.00	Cherry Canyon
5700.00	0.00	180.00	5659.77	431.74	229.56	-426.38	0.00	
5800.00	0.00	180.00	5759.77	431.74	229.56	-426.38	0.00	
5900.00	0.00	180.00	5859.77	431.74	229.56	-426.38	0.00	
6000.00	0.00	180.00	5959.77	431.74	229.56	-426.38	0.00	
6100.00	0.00	180.00	6059.77	431.74	229.56	-426.38	0.00	
6200.00	0.00	180.00	6159.77	431.74	229.56	-426.38	0.00	
6300.00	0.00	180.00	6259.77	431.74	229.56	-426.38	0.00	

devon

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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	0.00	180.00	6359.77	431.74	229.56	-426.38	0.00	
6500.00	0.00	180.00	6459.77	431.74	229.56	-426.38	0.00	
6600.00	0.00	180.00	6559.77	431.74	229.56	-426.38	0.00	
6700.00	0.00	180.00	6659.77	431.74	229.56	-426.38	0.00	
6800.00	0.00	180.00	6759.77	431.74	229.56	-426.38	0.00	
6900.00	0.00	180.00	6859.77	431.74	229.56	-426.38	0.00	
7000.00	0.00	180.00	6959.77	431.74	229.56	-426.38	0.00	
7100.00	0.00	180.00	7059.77	431.74	229.56	-426.38	0.00	
7200.00	0.00	180.00	7159.77	431.74	229.56	-426.38	0.00	
7210.23	0.00	180.00	7170.00	431.74	229.56	-426.38	0.00	Brushy Canyon
7300.00	0.00	180.00	7259.77	431.74	229.56	-426.38	0.00	
7400.00	0.00	180.00	7359.77	431.74	229.56	-426.38	0.00	
7500.00	0.00	180.00	7459.77	431.74	229.56	-426.38	0.00	
7600.00	0.00	180.00	7559.77	431.74	229.56	-426.38	0.00	
7700.00	0.00	180.00	7659.77	431.74	229.56	-426.38	0.00	
7800.00	0.00	180.00	7759.77	431.74	229.56	-426.38	0.00	
7900.00	0.00	180.00	7859.77	431.74	229.56	-426.38	0.00	
8000.00	0.00	180.00	7959.77	431.74	229.56	-426.38	0.00	
8100.00	0.00	180.00	8059.77	431.74	229.56	-426.38	0.00	
8200.00	0.00	180.00	8159.77	431.74	229.56	-426.38	0.00	
8300.00	0.00	180.00	8259.77	431.74	229.56	-426.38	0.00	
8400.00	0.00	180.00	8359.77	431.74	229.56	-426.38	0.00	
8500.00	0.00	180.00	8459.77	431.74	229.56	-426.38	0.00	
8600.00	0.00	180.00	8559.77	431.74	229.56	-426.38	0.00	
8700.00	0.00	180.00	8659.77	431.74	229.56	-426.38	0.00	
8720.23	0.00	180.00	8680.00	431.74	229.56	-426.38	0.00	1st Bone Spring Lime
8800.00	0.00	180.00	8759.77	431.74	229.56	-426.38	0.00	
8900.00	0.00	180.00	8859.77	431.74	229.56	-426.38	0.00	
9000.00	0.00	180.00	8959.77	431.74	229.56	-426.38	0.00	
9100.00	0.00	180.00	9059.77	431.74	229.56	-426.38	0.00	
9200.00	0.00	180.00	9159.77	431.74	229.56	-426.38	0.00	
9300.00	0.00	180.00	9259.77	431.74	229.56	-426.38	0.00	
9400.00	0.00	180.00	9359.77	431.74	229.56	-426.38	0.00	
9500.00	0.00	180.00	9459.77	431.74	229.56	-426.38	0.00	
9600.00	0.00	180.00	9559.77	431.74	229.56	-426.38	0.00	
9700.00	0.00	180.00	9659.77	431.74	229.56	-426.38	0.00	
9705.23	0.00	180.00	9665.00	431.74	229.56	-426.38	0.00	Bone Spring 1st
9800.00	0.00	180.00	9759.77	431.74	229.56	-426.38	0.00	
9900.00	0.00	180.00	9859.77	431.74	229.56	-426.38	0.00	
10000.00	0.00	180.00	9959.77	431.74	229.56	-426.38	0.00	
10100.00	0.00	180.00	10059.77	431.74	229.56	-426.38	0.00	
10200.00	0.00	180.00	10159.77	431.74	229.56	-426.38	0.00	
10300.00	0.00	180.00	10259.77	431.74	229.56	-426.38	0.00	
10350.23	0.00	180.00	10310.00	431.74	229.56	-426.38	0.00	Bone Spring 2nd
10400.00	0.00	180.00	10359.77	431.74	229.56	-426.38	0.00	
10500.00	0.00	180.00	10459.77	431.74	229.56	-426.38	0.00	
10600.00	0.00	180.00	10559.77	431.74	229.56	-426.38	0.00	
10700.00	0.00	180.00	10659.77	431.74	229.56	-426.38	0.00	
10800.00	0.00	180.00	10759.77	431.74	229.56	-426.38	0.00	
10845.23	0.00	180.00	10805.00	431.74	229.56	-426.38	0.00	3rd Bone Spring Lime
10900.00	0.00	180.00	10859.77	431.74	229.56	-426.38	0.00	
10942.28	0.00	180.00	10902.04	431.74	229.56	-426.38	0.00	KOP
11000.00	5.77	180.00	10959.67	428.83	229.56	-423.47	10.00	
11100.00	15.77	180.00	11057.78	410.17	229.56	-404.81	10.00	
11200.00	25.77	180.00	11151.16	374.75	229.56	-369.40	10.00	
11300.00	35.77	180.00	11236.97	323.65	229.56	-318.31	10.00	
11400.00	45.77	180.00	11312.61	258.43	229.56	-253.11	10.00	
11500.00	55.77	180.00	11375.77	181.06	229.56	-175.76	10.00	
11577.72	63.54	180.00	11415.00	114.04	229.56	-108.76	10.00	Bone Spring 3rd / Point of Penetration
11600.00	65.77	180.00	11424.54	93.90	229.56	-88.63	10.00	
11700.00	75.77	180.00	11457.43	-0.40	229.56	5.65	10.00	
11800.00	85.77	180.00	11473.44	-98.98	229.56	104.21	10.00	
11842.28	90.00	180.00	11475.00	-141.22	229.56	146.43	10.00	Landing Point
11900.00	90.00	180.00	11475.00	-198.94	229.56	204.14	0.00	
12000.00	90.00	180.00	11475.00	-298.94	229.56	304.12	0.00	
12100.00	90.00	180.00	11475.00	-398.94	229.56	404.09	0.00	
12200.00	90.00	180.00	11475.00	-498.94	229.56	504.06	0.00	
12300.00	90.00	180.00	11475.00	-598.94	229.56	604.04	0.00	
12400.00	90.00	180.00	11475.00	-698.94	229.56	704.01	0.00	
12500.00	90.00	180.00	11475.00	-798.94	229.56	803.98	0.00	

devon

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12600.00	90.00	180.00	11475.00	-898.94	229.56	903.96	0.00	
12700.00	90.00	180.00	11475.00	-998.94	229.56	1003.93	0.00	
12800.00	90.00	180.00	11475.00	-1098.94	229.56	1103.91	0.00	
12900.00	90.00	180.00	11475.00	-1198.94	229.56	1203.88	0.00	
13000.00	90.00	180.00	11475.00	-1298.94	229.56	1303.85	0.00	
13100.00	90.00	180.00	11475.00	-1398.94	229.56	1403.83	0.00	
13200.00	90.00	180.00	11475.00	-1498.94	229.56	1503.80	0.00	
13300.00	90.00	180.00	11475.00	-1598.94	229.56	1603.78	0.00	
13400.00	90.00	180.00	11475.00	-1698.94	229.56	1703.75	0.00	
13500.00	90.00	180.00	11475.00	-1798.94	229.56	1803.72	0.00	
13600.00	90.00	180.00	11475.00	-1898.94	229.56	1903.70	0.00	
13700.00	90.00	180.00	11475.00	-1998.94	229.56	2003.67	0.00	
13800.00	90.00	180.00	11475.00	-2098.94	229.57	2103.64	0.00	
13900.00	90.00	180.00	11475.00	-2198.94	229.57	2203.62	0.00	
14000.00	90.00	180.00	11475.00	-2298.94	229.57	2303.59	0.00	
14100.00	90.00	180.00	11475.00	-2398.94	229.57	2403.57	0.00	
14200.00	90.00	180.00	11475.00	-2498.94	229.57	2503.54	0.00	
14300.00	90.00	180.00	11475.00	-2598.94	229.57	2603.51	0.00	
14400.00	90.00	180.00	11475.00	-2698.94	229.57	2703.49	0.00	
14500.00	90.00	180.00	11475.00	-2798.94	229.57	2803.46	0.00	
14600.00	90.00	180.00	11475.00	-2898.94	229.57	2903.44	0.00	
14700.00	90.00	180.00	11475.00	-2998.94	229.57	3003.41	0.00	
14800.00	90.00	180.00	11475.00	-3098.94	229.57	3103.38	0.00	
14900.00	90.00	180.00	11475.00	-3198.94	229.57	3203.36	0.00	
15000.00	90.00	180.00	11475.00	-3298.94	229.57	3303.33	0.00	
15100.00	90.00	180.00	11475.00	-3398.94	229.57	3403.30	0.00	
15200.00	90.00	180.00	11475.00	-3498.94	229.57	3503.28	0.00	
15300.00	90.00	180.00	11475.00	-3598.94	229.57	3603.25	0.00	
15400.00	90.00	180.00	11475.00	-3698.94	229.57	3703.23	0.00	
15500.00	90.00	180.00	11475.00	-3798.94	229.57	3803.20	0.00	
15600.00	90.00	180.00	11475.00	-3898.94	229.57	3903.17	0.00	
15700.00	90.00	180.00	11475.01	-3998.94	229.57	4003.15	0.00	
15800.00	90.00	180.00	11475.01	-4098.94	229.57	4103.12	0.00	
15900.00	90.00	180.00	11475.01	-4198.94	229.57	4203.10	0.00	
16000.00	90.00	180.00	11475.01	-4298.94	229.57	4303.07	0.00	
16100.00	90.00	180.00	11475.01	-4398.94	229.57	4403.04	0.00	
16200.00	90.00	180.00	11475.01	-4498.94	229.57	4503.02	0.00	
16300.00	90.00	180.00	11475.01	-4598.94	229.57	4602.99	0.00	
16400.00	90.00	180.00	11475.01	-4698.94	229.57	4702.96	0.00	
16500.00	90.00	180.00	11475.01	-4798.94	229.57	4802.94	0.00	
16600.00	90.00	180.00	11475.01	-4898.94	229.57	4902.91	0.00	
16700.00	90.00	180.00	11475.01	-4998.94	229.57	5002.89	0.00	
16800.00	90.00	180.00	11475.01	-5098.94	229.57	5102.86	0.00	
16900.00	90.00	180.00	11475.01	-5198.94	229.57	5202.83	0.00	
17000.00	90.00	180.00	11475.01	-5298.94	229.57	5302.81	0.00	
17100.00	90.00	180.00	11475.01	-5398.94	229.57	5402.78	0.00	
17200.00	90.00	180.00	11475.01	-5498.94	229.57	5502.76	0.00	
17300.00	90.00	180.00	11475.01	-5598.94	229.57	5602.73	0.00	
17400.00	90.00	180.00	11475.01	-5698.94	229.57	5702.70	0.00	
17500.00	90.00	180.00	11475.01	-5798.94	229.58	5802.68	0.00	
17600.00	90.00	180.00	11475.01	-5898.94	229.58	5902.65	0.00	
17700.00	90.00	180.00	11475.01	-5998.94	229.58	6002.62	0.00	
17800.00	90.00	180.00	11475.01	-6098.94	229.58	6102.60	0.00	
17900.00	90.00	180.00	11475.01	-6198.94	229.58	6202.57	0.00	
18000.00	90.00	180.00	11475.01	-6298.94	229.58	6302.55	0.00	
18100.00	90.00	180.00	11475.01	-6398.94	229.58	6402.52	0.00	
18200.00	90.00	180.00	11475.01	-6498.94	229.58	6502.49	0.00	
18300.00	90.00	180.00	11475.01	-6598.94	229.58	6602.47	0.00	
18400.00	90.00	180.00	11475.01	-6698.94	229.58	6702.44	0.00	
18500.00	90.00	180.00	11475.01	-6798.94	229.58	6802.42	0.00	
18600.00	90.00	180.00	11475.01	-6898.94	229.58	6902.39	0.00	
18700.00	90.00	180.00	11475.01	-6998.94	229.58	7002.36	0.00	
18800.00	90.00	180.00	11475.01	-7098.94	229.58	7102.34	0.00	
18900.00	90.00	180.00	11475.01	-7198.94	229.58	7202.31	0.00	
19000.00	90.00	180.00	11475.01	-7298.94	229.58	7302.28	0.00	
19100.00	90.00	180.00	11475.01	-7398.94	229.58	7402.26	0.00	
19200.00	90.00	180.00	11475.01	-7498.94	229.58	7502.23	0.00	
19300.00	90.00	180.00	11475.01	-7598.94	229.58	7602.21	0.00	
19400.00	90.00	180.00	11475.01	-7698.94	229.58	7702.18	0.00	
19500.00	90.00	180.00	11475.01	-7798.94	229.58	7802.15	0.00	

devon

Well: Van Doo Dah 28-33 Fed Com 711H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19600.00	90.00	180.00	11475.01	-7898.94	229.58	7902.13	0.00	
19700.00	90.00	180.00	11475.01	-7998.94	229.58	8002.10	0.00	
19800.00	90.00	180.00	11475.01	-8098.94	229.58	8102.08	0.00	
19900.00	90.00	180.00	11475.01	-8198.94	229.58	8202.05	0.00	
20000.00	90.00	180.00	11475.01	-8298.94	229.58	8302.02	0.00	
20100.00	90.00	180.00	11475.01	-8398.94	229.58	8402.00	0.00	
20200.00	90.00	180.00	11475.01	-8498.94	229.58	8501.97	0.00	
20300.00	90.00	180.00	11475.01	-8598.94	229.58	8601.94	0.00	
20400.00	90.00	180.00	11475.01	-8698.94	229.58	8701.92	0.00	
20500.00	90.00	180.00	11475.01	-8798.94	229.58	8801.89	0.00	
20600.00	90.00	180.00	11475.01	-8898.94	229.58	8901.87	0.00	
20700.00	90.00	180.00	11475.01	-8998.94	229.58	9001.84	0.00	
20800.00	90.00	180.00	11475.01	-9098.94	229.58	9101.81	0.00	
20900.00	90.00	180.00	11475.01	-9198.94	229.58	9201.79	0.00	
21000.00	90.00	180.00	11475.01	-9298.94	229.58	9301.76	0.00	
21100.00	90.00	180.00	11475.01	-9398.94	229.58	9401.74	0.00	
21200.00	90.00	180.00	11475.01	-9498.94	229.58	9501.71	0.00	
21300.00	90.00	180.00	11475.01	-9598.94	229.59	9601.68	0.00	
21400.00	90.00	180.00	11475.01	-9698.94	229.59	9701.66	0.00	
21500.00	90.00	180.00	11475.01	-9798.94	229.59	9801.63	0.00	
21600.00	90.00	180.00	11475.01	-9898.94	229.59	9901.60	0.00	
21655.22	90.00	180.00	11475.01	-9954.16	229.59	9956.81	0.00	EXIT
21700.00	90.00	180.00	11475.01	-9998.94	229.59	10001.58	0.00	
21735.22	90.00	180.00	11475.00	-10034.16	229.56	10036.79	0.00	BHL

Van Doo Dah 28-33 Fed Com 711H

13 3/8	surface csg in a	17 1/2	inch hole.		Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	48.00	h 40	stc	6.58	1.61	0.31	1,020	4	0.51	3.05	48,960
"B"			stc				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 766		Tail Cmt	does not	circ to sfc.	Totals:	1,020				48,960

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	777	1119	709	58	9.00	3364	5M	1.56

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

Site plat (pipe racks 5 or 6) as per O.O.1.III.D.4.i. not found.

8 5/8	casing inside the	13 3/8			Design Factors					Int 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	p 110	tlw	3.26	0.75	1.66	10,335	2	3.14	1.26	330,720
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,274					Totals:	10,335				330,720
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		1020				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.1261	657	2026	1660	22	10.50	2840	3M	0.44
r D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
t by stage % :		#VALUE!	#VALUE!				657	2026	22

Class 'H' tail cmt yld > 1.20

Tail cmt

5 1/2	casing inside the	8 5/8			Design Factors					Prod 1		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00	p 110	btc	2.80	1.39	1.98	21,735	2	3.75	2.63	369,495
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,525					Totals:	21,735				369,495
	The cement volume(s) are intended to achieve a top of			10135	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.1733	1493	2269	2011	13	9.00			0.91

Class 'C' tail cmt yld > 1.35

#N/A

0		5 1/2			Design Factors					<Choose Casing>		
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:					Totals:	0				0
	Cmt vol calc below includes this csg, TOC intended			#N/A	ft from surface or a		#N/A				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A				

#N/A Capitan Reef est top XXXX.

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1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 246526

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 246526
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/22/2023