

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

Sundry Print Report?

Well Name: ARENA ROJA 28-33 FED Well Location: T26S / R35E / SEC 28 / County or Parish/State:

COM NWNW /

Well Number: 701H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM125400 Unit or CA Name: Unit or CA Number:

US Well Number: 3002550857 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

#### **Notice of Intent**

**Sundry ID: 2705759** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/12/2022 Time Sundry Submitted: 07:34

Date proposed operation will begin: 12/03/2022

**Procedure Description:** Devon Energy Production Co., L.P. (Devon) respectfully requests to move the SHL/BHL on the subject well. Please see attached C102, Drill plan, directional plan. Please note a NSL will be filed for this well. Permitted SHL: NWNW, 250 FNL, 288 FWL, 28-26S-35E Proposed SHL: NWNW, 250 FNL, 318 FWL, 28-26S-35E Permitted BHL: LOT 4, 20 FSL, 330 FWL, 33-26S-35E Proposed BHL: LOT 4, 20 FSL, 1030 FWL, 33-26S-35E

## **NOI Attachments**

## **Procedure Description**

 $WA 018456292\_ARENA\_ROJA\_28\_33\_FED\_COM\_701H\_WL\_SIGNED\_20230117122455.pdf$ 

Arena\_Roja\_28\_33\_Fed\_Com\_701H\_20230117121622.pdf

 $Arena\_Roja\_28\_33\_Fed\_Com\_701H\_pad\_plat\_new\_location\_20221212073235.pdf$ 

 $Arena\_Roja\_28\_33\_Fed\_Com\_701H\_Directional\_Plan\_11\_22\_22\_20221203164015.pdf$ 

eived by OCD: 1/27/2023 12:24:13 PM Well Name: ARENA ROJA 28-33 FED

COM

Well Location: T26S / R35E / SEC 28 /

NWNW /

County or Parish/State:

Well Number: 701H

Type of Well: OIL WELL

**Allottee or Tribe Name:** 

Page 2 of

Lease Number: NMNM125400

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number: 3002550857** 

Well Status: Approved Application for

Permit to Drill

**Operator: DEVON ENERGY** PRODUCTION COMPANY LP

## **Conditions of Approval**

## **Additional**

Arena Roja 28 33 fed Com 701H Sundry ID 2705759 20230118140056.pdf

28\_26\_35\_D\_Sundry\_ID\_2705759\_Arena\_Roja\_28\_33\_Fed\_Com\_701H\_Lea\_NM125400\_DEVON\_ENERGY\_PRODU CTION\_COMPANY\_LP\_13\_22d\_8\_29\_2022\_LV\_20230118140050.pdf

## **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: JAN 17, 2023 12:16 PM

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:** 

State: City:

Phone:

**Email address:** 

## **BLM Point of Contact**

**BLM POC Name: CHRISTOPHER WALLS BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234 BLM POC Email Address: cwalls@blm.gov

**Disposition:** Approved Disposition Date: 01/24/2023

Signature: Chris Walls

Page 2 of 2

Zip:

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

State of New Mexico Energy, Minerals & Natural Resources Department CONSERVATION DIVISION

> 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

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) 476-3460 Fax: (505) 476-3462

□ AMENDED REPORT

		WELL LOCATION	AND	ACREAGE DEDICATION PLAT	
API Number Pool Code			Pool Name		
		96776		JABALINA; WOLFCAMP, SO	UTHWEST
Property Code			Well Number		
		ARENA	ROJA	28-33 FED COM	701H
OGRID No.			Орег	rator Name	Elevation
6137		DEVON ENERGY	Z PRO	DUCTION COMPANY, L.P.	3168.4

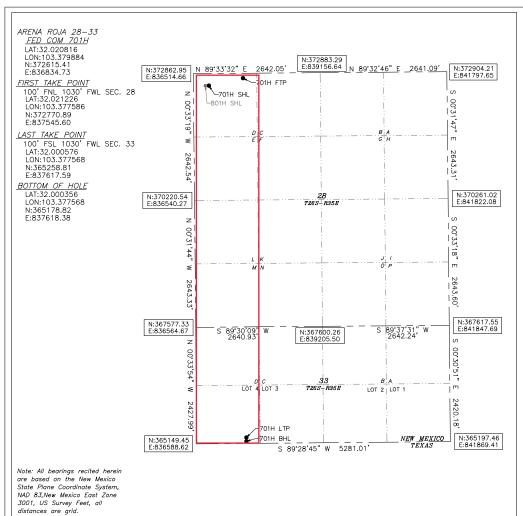
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	26-S	35-E		250	NORTH	318	WEST	LEA

#### 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
4	33	26-S	35-E		20	SOUTH	1030	WEST	LEA
Dedicated Acre	s Joint o	r Infill Co	nsolidation (	Code Or	der No.				
233.58					NSL				

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



#### OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Julsey, 12/3/22 Signature Date

## CHELSEY GREEN

Printed Name

## <u>chelsey.green@dvn.com</u>

E-mail Address

#### 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.

11/12/2022

Date of Survey



DRAWN BY: CM

Inten	t X	As Dril	led											
API#	;													
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.				J		perty Nai			-33 FI	ED (	СОМ		Well Number 701H	
Kick (	Off Point	(KOP)												
UL D	Section 28	Township 26S	Range 35E	Lot	Feet 65		From N/S		Feet		From	n E/W ST	County	
Latitu <b>32</b> .0	ıde				Longitu					-			NAD 83	
First <sup>7</sup>	Гаke Poir	nt (FTP)												
D D	Section 28	Township 26-S	Range 35-E	Lot	Feet 100		From N/S		Feet 103			ST	County	
132.	ude .0212	26			Longitu 103	3.377586 NAD 83								
Last T	āke Poin	t (LTP)												
UL	Section 33	Township 26-S	Range 35-E	Lot 4	Feet 100		m N/S I	eet 03		From WES		Count		
132.	.de .0005	76			Longitu 103	itude 3.377568 83								
Is this	s well the	defining v	vell for th	e Horiz	zontal Sp	oacin,	g Unit?		Y					
Is this	s well an	infill well?		N										
	ll is yes p ng Unit.	lease prov	ide API if	availab	ole, Oper	rator	Name ar	d v	vell n	umber	for [	Definii	ng well fo	r Horizontal
API#														
Ope	rator Nai	me:				Pro	perty Nai	ne:						Well Number

KZ 06/29/2018

## 1. Geologic Formations

TVD of target	12530	Pilot hole depth	N/A
MD at TD:	19973	Deepest expected fresh water	

## Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1035		
Salt	1615		
Base of Salt	4950		
Delaware	5280		
Cherry Canyon	6325		
Brushy Canyon	7930		
1st Bone Spring Lime	9170		
Bone Spring 1st	10430		
Bone Spring 2nd	10960		
3rd Bone Spring Lime	11395		
Bone Spring 3rd	12060		
Wolfcamp	12380		
		2	
		*	

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

		Wt				Interval	Casing Interval		
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)	
13 1/2	10 3/4	40 1/2	H40	BTC	0	1060	0	1060	
9 7/8	8 5/8	32	P110	Sprint FJ	0	11918	0	11918	
7 7/8	5 1/2	17	P110	BTC	0	19973	0	12530	

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

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	426	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	392	Surf	9	3.27	Lead: Class C Cement + additives
IIIt I	464	7930	13.2	1.44	Tail: Class H / C + additives
Int 1	855	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	392	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	464	7930	13.2	1.44	Tail: Class H / C + additives
Production	117	10019	9	3.27	Lead: Class H /C + additives
Froduction	1053	12019	13.2	1.44	Tail: Class H / C + additives

Cementing Program (Primary Design)Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the 8-5/8''intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures."

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	✓	Tested to:	
			Anı	nular	X	50% of rated working pressure	
Int 1	13-5/8"	5M	Bline	d Ram	X		
IIIt 1	13-3/6	J1V1	Pipe	Ram		5M	
			Doub	le Ram	X	J1V1	
			Other*				
			Annular (5M)		X	100% of rated working pressure	
Production	13-5/8"	10M	Blind Ram		X		
Floduction	13-3/6	TOW	Pipe	Ram		10M	
			Doub	le Ram	X		
			Other*				
			Annular (5M)				
			Blind Ram				
			Pipe Ram				
			Double Ram				
			Other*				
N A variance is requested for	the use of a	diverter or	the surface	casing. See a	attached for so	chematic.	
Y A variance is requested to r	run a 5 M a	nnular on a	10M system	1			

5. Mud Program (Three String Design)

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

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
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6. Logging and Testing Procedures

Logging, C	Logging, Coring and Testing									
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the									
X	Completion Report and shumitted 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.									

Additiona	al 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	6841
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.

Cheountered	cheoditered measured values and formations will be provided to the BEW.							
N	H2S is present							
Y	H2S plan attached.							

#### 8. Other facets of operation

Is this a walking operation? Potentially

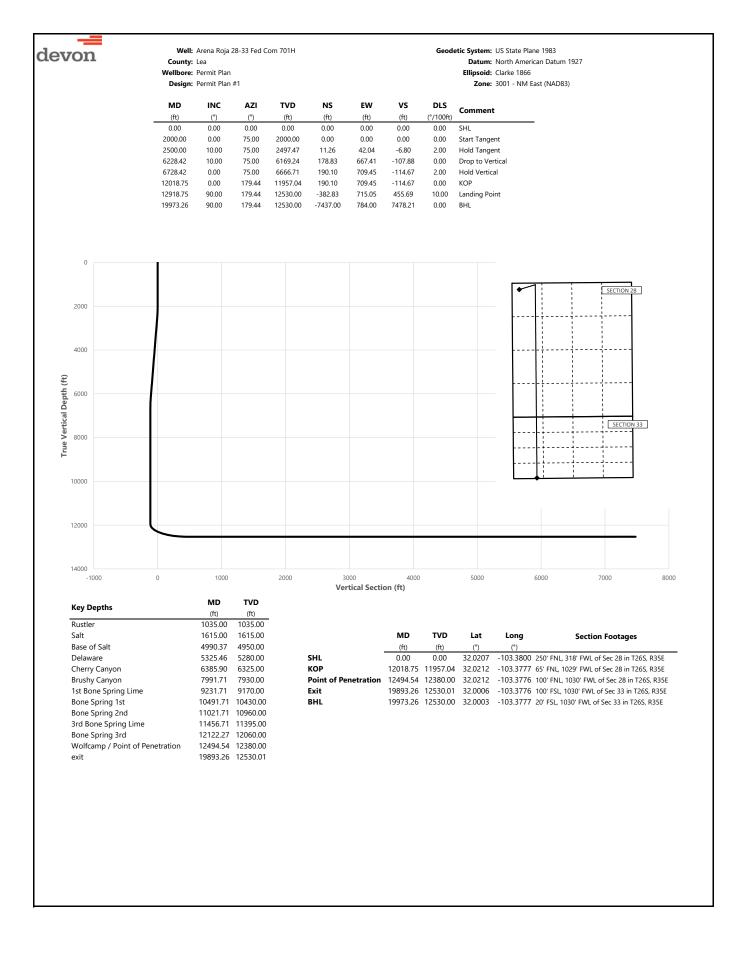
- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and 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.

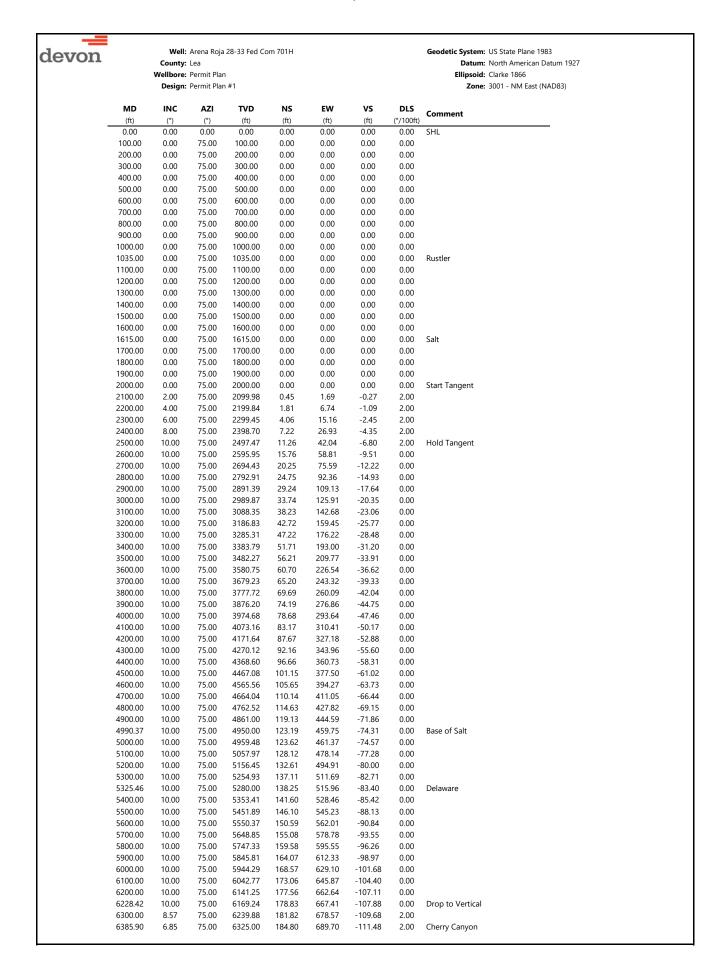
NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

#### 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: Arena Roja 28-33 Fed Com 701H

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)

Design: Permit Plan #1						<b>Zone:</b> 3001 - NM East (NAD83)		
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
5400.00	6.57	75.00	6339.01	185.23	691.29	-111.74	2.00	_
5500.00	4.57	75.00	6438.53	187.74	700.66	-113.25	2.00	
6600.00	2.57	75.00	6538.33	189.35	706.67	-114.22	2.00	
6700.00	0.57	75.00	6638.29	190.06	709.32	-114.65	2.00	
6728.42	0.00	75.00	6666.71	190.10	709.45	-114.67	2.00	Hold Vertical
6800.00	0.00	179.44	6738.29	190.10	709.45	-114.67	0.00	
6900.00	0.00	179.44	6838.29	190.10	709.45	-114.67	0.00	
7000.00	0.00	179.44	6938.29	190.10	709.45	-114.67	0.00	
7100.00	0.00	179.44	7038.29	190.10	709.45	-114.67	0.00	
7200.00	0.00	179.44	7138.29	190.10	709.45	-114.67	0.00	
7300.00	0.00	179.44	7238.29	190.10	709.45	-114.67	0.00	
7400.00	0.00	179.44	7338.29	190.10	709.45	-114.67	0.00	
7500.00	0.00	179.44	7438.29	190.10	709.45	-114.67	0.00	
7600.00	0.00	179.44	7538.29	190.10	709.45	-114.67	0.00	
7700.00	0.00	179.44	7638.29	190.10	709.45	-114.67	0.00	
7800.00	0.00	179.44	7738.29	190.10	709.45	-114.67	0.00	
900.00	0.00	179.44	7838.29	190.10	709.45	-114.67	0.00	Brushi Canua
991.71	0.00	179.44	7930.00	190.10	709.45	-114.67	0.00	Brushy Canyon
000.00	0.00	179.44	7938.29	190.10	709.45	-114.67	0.00	
3100.00	0.00	179.44	8038.29	190.10	709.45	-114.67	0.00	
3200.00 3300.00	0.00	179.44	8138.29	190.10	709.45	-114.67	0.00	
3400.00 3400.00	0.00	179.44 179.44	8238.29 8338.29	190.10 190.10	709.45 709.45	-114.67 -114.67	0.00	
3400.00 3500.00	0.00	179.44	8338.29 8438.29	190.10	709.45 709.45	-114.67 -114.67	0.00	
3600.00	0.00	179.44	8538.29	190.10	709.45	-114.67 -114.67	0.00	
3700.00	0.00	179.44	8638.29	190.10	709.45	-114.67	0.00	
8800.00	0.00	179.44	8738.29	190.10	709.45	-114.67	0.00	
3900.00	0.00	179.44	8838.29	190.10	709.45	-114.67	0.00	
00.000	0.00	179.44	8938.29	190.10	709.45	-114.67	0.00	
100.00	0.00	179.44	9038.29	190.10	709.45	-114.67	0.00	
200.00	0.00	179.44	9138.29	190.10	709.45	-114.67	0.00	
231.71	0.00	179.44	9170.00	190.10	709.45	-114.67	0.00	1st Bone Spring Lime
9300.00	0.00	179.44	9238.29	190.10	709.45	-114.67	0.00	. 5
9400.00	0.00	179.44	9338.29	190.10	709.45	-114.67	0.00	
9500.00	0.00	179.44	9438.29	190.10	709.45	-114.67	0.00	
600.00	0.00	179.44	9538.29	190.10	709.45	-114.67	0.00	
9700.00	0.00	179.44	9638.29	190.10	709.45	-114.67	0.00	
9800.00	0.00	179.44	9738.29	190.10	709.45	-114.67	0.00	
9900.00	0.00	179.44	9838.29	190.10	709.45	-114.67	0.00	
00.000	0.00	179.44	9938.29	190.10	709.45	-114.67	0.00	
10100.00	0.00	179.44	10038.29	190.10	709.45	-114.67	0.00	
10200.00	0.00	179.44	10138.29	190.10	709.45	-114.67	0.00	
10300.00	0.00	179.44	10238.29	190.10	709.45	-114.67	0.00	
10400.00	0.00	179.44	10338.29	190.10	709.45	-114.67	0.00	
0491.71	0.00	179.44	10430.00	190.10	709.45	-114.67	0.00	Bone Spring 1st
0500.00	0.00	179.44	10438.29	190.10	709.45	-114.67	0.00	
10600.00	0.00	179.44	10538.29	190.10	709.45	-114.67	0.00	
0700.00	0.00	179.44	10638.29	190.10	709.45	-114.67	0.00	
10800.00	0.00	179.44	10738.29	190.10	709.45	-114.67	0.00	
0900.00	0.00	179.44	10838.29	190.10	709.45	-114.67	0.00	
1000.00	0.00	179.44	10938.29	190.10	709.45	-114.67	0.00	David Carina 2 and
1021.71	0.00	179.44	10960.00	190.10	709.45	-114.67	0.00	Bone Spring 2nd
1100.00	0.00	179.44	11038.29	190.10	709.45	-114.67	0.00	
1200.00	0.00	179.44	11138.29	190.10	709.45	-114.67	0.00	
1300.00 1400.00	0.00	179.44	11238.29	190.10	709.45	-114.67	0.00	
	0.00	179.44 179.44	11338.29	190.10	709.45	-114.67	0.00	2rd Rono Spring Lima
11456.71 11500.00	0.00	179.44	11395.00 11438.29	190.10	709.45 709.45	-114.67 -114.67	0.00	3rd Bone Spring Lime
11600.00	0.00	179.44	11438.29	190.10 190.10	709.45 709.45	-114.67 -114.67	0.00	
11700.00	0.00	179.44	11638.29	190.10	709.45	-114.67 -114.67	0.00	
11800.00	0.00	179.44	11738.29	190.10	709.45	-114.67	0.00	
11900.00	0.00	179.44	11/38.29	190.10	709.45	-114.67 -114.67	0.00	
12000.00	0.00	179.44	11938.29	190.10	709.45	-114.67 -114.67	0.00	
12000.00	0.00	179.44	11936.29	190.10	709.45	-114.67 -114.67	0.00	KOP
12100.00	8.12	179.44	12038.02	184.35	709.45	-114.67	10.00	NO.
12100.00	10.35	179.44	12056.02	180.77	709.51	-106.93	10.00	Bone Spring 3rd
12200.00	18.12	179.44	12135.28	161.67	709.34	-86.37	10.00	Done Spring Sid
12300.00	28.12	179.44	12133.26	122.45	710.11	-60.37 -47.33	10.00	
12400.00	38.12	179.44	12310.77	67.87	710.65	7.00	10.00	
					711.27			Wolfcamp / Point of Penetration
12494.54	47.58	179.44	12380.00	3.66	/   1.27	70.93	10.00	



Well: Arena Roja 28-33 Fed Com 701H

County: Lea Wellbore: Permit Plan Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

	Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)			
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	<b>DLS</b> (°/100ft)	Comment		
12500.00	48.12	179.44	12383.67	-0.39	711.31	74.97	10.00			
12600.00	58.12	179.44	12443.60	-80.28	712.10	154.50	10.00			
12700.00	68.12	179.44	12488.75	-169.36	712.97	243.18	10.00			
12800.00	78.12	179.44	12517.74	-264.93	713.90	338.32	10.00			
12900.00	88.12	179.44	12529.69	-364.08	714.87	437.02	10.00	Looding Below		
12918.75 13000.00	90.00 90.00	179.44 179.44	12530.00 12530.00	-382.83 -464.07	715.05 715.85	455.69 536.57	10.00 0.00	Landing Point		
13100.00	90.00	179.44	12530.00	-564.07	716.82	636.11	0.00			
13200.00	90.00	179.44	12530.00	-664.07	717.80	735.66	0.00			
13300.00	90.00	179.44	12530.00	-764.06	718.78	835.21	0.00			
13400.00	90.00	179.44	12530.00	-864.06	719.76	934.75	0.00			
13500.00	90.00	179.44	12530.00	-964.05	720.73	1034.30	0.00			
13600.00	90.00	179.44	12530.00	-1064.05	721.71	1133.85	0.00			
13700.00	90.00	179.44	12530.00	-1164.04	722.69	1233.39	0.00			
13800.00	90.00	179.44	12530.00	-1264.04	723.67	1332.94	0.00			
13900.00 14000.00	90.00	179.44	12530.00 12530.00	-1364.03 -1464.03	724.64	1432.49 1532.03	0.00			
14100.00	90.00 90.00	179.44 179.44	12530.00	-1564.02	725.62 726.60	1631.58	0.00			
14200.00	90.00	179.44	12530.00	-1664.02	727.58	1731.13	0.00			
14300.00	90.00	179.44	12530.00	-1764.01	728.55	1830.67	0.00			
14400.00	90.00	179.44	12530.00	-1864.01	729.53	1930.22	0.00			
14500.00	90.00	179.44	12530.00	-1964.00	730.51	2029.77	0.00			
14600.00	90.00	179.44	12530.00	-2064.00	731.49	2129.31	0.00			
14700.00	90.00	179.44	12530.00	-2163.99	732.47	2228.86	0.00			
14800.00	90.00	179.44	12530.00	-2263.99	733.44	2328.41	0.00			
14900.00 15000.00	90.00 90.00	179.44 179.44	12530.00 12530.00	-2363.98 -2463.98	734.42 735.40	2427.95 2527.50	0.00			
15100.00	90.00	179.44	12530.00	-2563.97	736.38	2627.05	0.00			
15200.00	90.00	179.44	12530.00	-2663.97	737.35	2726.59	0.00			
15300.00	90.00	179.44	12530.00	-2763.96	738.33	2826.14	0.00			
15400.00	90.00	179.44	12530.00	-2863.96	739.31	2925.69	0.00			
15500.00	90.00	179.44	12530.00	-2963.96	740.29	3025.23	0.00			
15600.00	90.00	179.44	12530.00	-3063.95	741.26	3124.78	0.00			
15700.00	90.00	179.44	12530.00	-3163.95	742.24	3224.33	0.00			
15800.00	90.00	179.44	12530.00	-3263.94	743.22	3323.87	0.00			
15900.00 16000.00	90.00 90.00	179.44 179.44	12530.00 12530.00	-3363.94 -3463.93	744.20 745.17	3423.42 3522.97	0.00			
16100.00	90.00	179.44	12530.00	-3563.93	745.17	3622.51	0.00			
16200.00	90.00	179.44	12530.00	-3663.92	747.13	3722.06	0.00			
16300.00	90.00	179.44	12530.01	-3763.92	748.11	3821.61	0.00			
16400.00	90.00	179.44	12530.01	-3863.91	749.09	3921.15	0.00			
16500.00	90.00	179.44	12530.01	-3963.91	750.06	4020.70	0.00			
16600.00	90.00	179.44	12530.01	-4063.90	751.04	4120.25	0.00			
16700.00	90.00	179.44	12530.01	-4163.90	752.02	4219.79	0.00			
16800.00	90.00	179.44	12530.01	-4263.89	753.00	4319.34	0.00			
16900.00 17000.00	90.00 90.00	179.44 179.44	12530.01 12530.01	-4363.89 -4463.88	753.97 754.95	4418.89 4518.43	0.00			
17000.00	90.00	179.44	12530.01		754.95 755.93	4617.98	0.00			
17100.00	90.00	179.44	12530.01	-4663.87	756.91	4717.53	0.00			
17300.00	90.00	179.44	12530.01	-4763.87	757.88	4817.07	0.00			
17400.00	90.00	179.44	12530.01	-4863.86	758.86	4916.62	0.00			
17500.00	90.00	179.44	12530.01	-4963.86	759.84	5016.17	0.00			
17600.00	90.00	179.44	12530.01	-5063.86	760.82	5115.71	0.00			
17700.00	90.00	179.44	12530.01	-5163.85	761.79	5215.26	0.00			
17800.00 17900.00	90.00 90.00	179.44 179.44	12530.01	-5263.85 -5363.84	762.77 763.75	5314.81 5414.35	0.00			
18000.00	90.00	179.44	12530.01 12530.01	-5363.84 -5463.84	763.75 764.73	5414.35	0.00			
18100.00	90.00	179.44	12530.01	-5563.83	765.71	5613.45	0.00			
18200.00	90.00	179.44	12530.01	-5663.83	766.68	5712.99	0.00			
18300.00	90.00	179.44	12530.01	-5763.82	767.66	5812.54	0.00			
18400.00	90.00	179.44	12530.01	-5863.82	768.64	5912.09	0.00			
18500.00	90.00	179.44	12530.01	-5963.81	769.62	6011.63	0.00			
18600.00	90.00	179.44	12530.01	-6063.81	770.59	6111.18	0.00			
18700.00	90.00	179.44	12530.01	-6163.80	771.57	6210.73	0.00			
18800.00	90.00	179.44	12530.01	-6263.80	772.55	6310.27	0.00			
18900.00 19000.00	90.00 90.00	179.44 179.44	12530.01 12530.01	-6363.79 -6463.79	773.53 774.50	6409.82 6509.37	0.00			
19100.00	90.00	179.44	12530.01	-6563.78	775.48	6608.91	0.00			
19200.00	90.00	179.44	12530.01	-6663.78	776.46	6708.46	0.00			
19300.00	90.00	179.44	12530.01	-6763.77	777.44	6808.01	0.00			



Well: Arena Roja 28-33 Fed Com 701H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

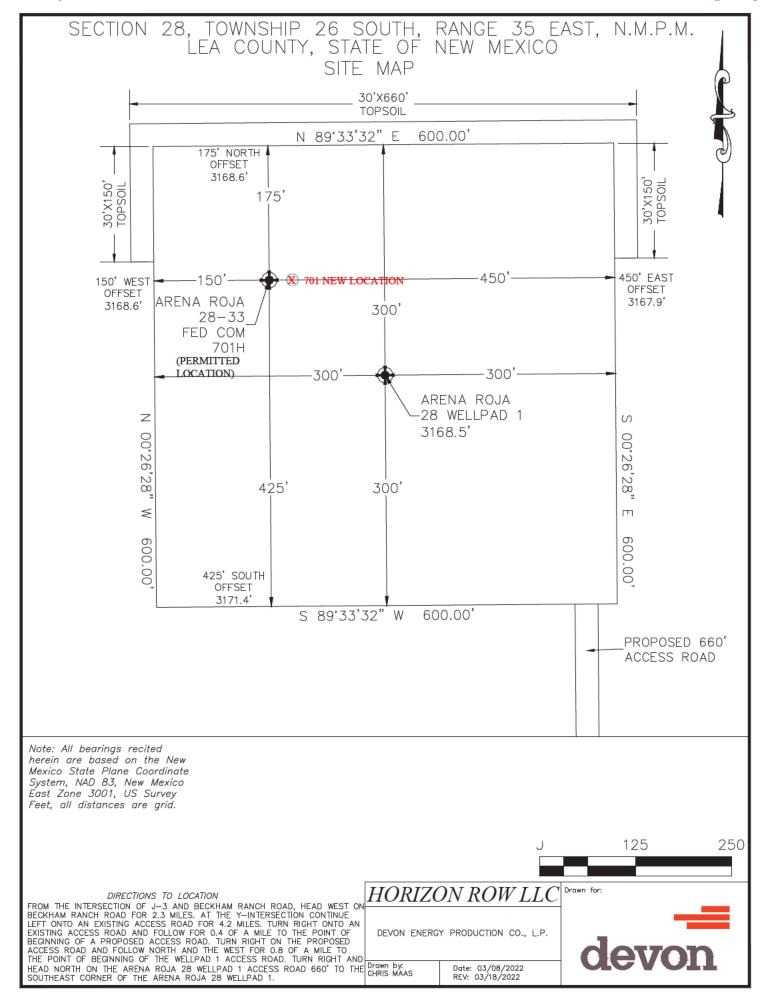
Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	<b>6</b>
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19400.00	90.00	179.44	12530.01	-6863.77	778.41	6907.55	0.00	
19500.00	90.00	179.44	12530.01	-6963.76	779.39	7007.10	0.00	
19600.00	90.00	179.44	12530.01	-7063.76	780.37	7106.65	0.00	
19700.00	90.00	179.44	12530.01	-7163.75	781.35	7206.19	0.00	
19800.00	90.00	179.44	12530.01	-7263.75	782.32	7305.74	0.00	
19893.26	90.00	179.44	12530.01	-7357.00	783.24	7398.57	0.00	exit
19900.00	90.00	179.44	12530.01	-7363.75	783.30	7405.29	0.00	
19973 26	90.00	179 //	12530.00	-7/37 00	784 00	7/178 21	0.00	RLII



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28-26-35-D Sundry ID 2705759 Arena Roja 28-33 Fed Com 701H Lea NM125400 DEVON ENERGY PRODUCTION COMPANY LP 1322d 8-29-2022 LV.xlsm 22d 8-29-2022 LV.xlsm

#### Arena Roja 28-33 Fed Com 701H

	surf	ace csg in a	13 1/2	inch hole.		Design	Factors			Surfac	e	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	40.50		h 40	btc	10.12	2.67	0.35	1,115	5	0.59	5.04	
"B"				btc				0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 1.109	Tail Cmt	does not	circ to sfc.	Totals:	1,115				45,158
comparison c		nimum Required Cem						.,				-, -
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
13 1/2	0.3637	426	613	406	51	9.00	3879	5M				1.38
urst Frac Gra	dient(s) for Segme	nt(s) A, B = , b All > 0	0.70, OK.									
85/8	casin	g inside the	10 3/4			Design	Factors		-	Int 1		
Segment	#/ft	Grade	10 3/4	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	32.00	Glade	p 110	vam sprint fj	1.95	0.62	1.05	11,918	1	1.75	1.03	
"B"	32.00		P 110	vaiii spiiiit IJ	1.55	0.02	1.03	0	' '	1.75	1.03	0
В	/0 A#/a	mud, 30min Sfc Csg Test	nsign -106				Totals:	11,918				381,37
	W/0.4#/g	_		nded to achieve a top of	0	ft from su		11,916 1115				overlap.
Hole	Annular		1 Stage	Min	1 Stage	Drilling	Calc					Min Di
Size	Volume	1 Stage Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	Req'd				Hole-C
9 7/8	0.1261	856	1950	1524	% <b>Excess</b> 28			BOPE				0.61
	0.1201	000		1524	20	10.50	4078	5M				Σ%exce
D V Tool(s):			7930				sum of sx	<u>Σ CuFt</u>				109
by stage % : Class 'H' tail cn		288	21				1711	3181				109
Tail cmt	TIT YIU > 1.20											
5 1/2	casin	g inside the	8 5/8			Design Fa	ctors		-	Prod	1	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	17.00		p 110	btc	2.56	1.09	1.56	19,973	2	2.61	1.83	339,54
"B"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 2,757				Totals:	19,973				339,54
		The cement	volume(s) are inte	nded to achieve a top of	11718	ft from su	rface or a	200				overlap.
11-1-	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Di
Hole	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
Size	Volunic		1899	1431	33	10.50						0.91
	0.1733	1170	1000									
Size 7 7/8	0.1733	1170	1093									
Size	0.1733	1170	1039									
Size 7 7/8 Class 'C' tail cm	0.1733 nt yld > 1.35	1170	5 1/2			<u>Design</u>	Factors		<(	Choose C	asing>	
Size 7 7/8 Class 'C' tail cm #N/A 0	0.1733	1170		Coupling	#N/A	Design Collapse	Factors Burst	Length			asing> a-C	Weigh
Size 7 7/8 Class 'C' tail cm #N/A	0.1733 nt yld > 1.35			Coupling 0.00	#N/A			Length 0				Weigh 0
Size 7 7/8 Class 'C' tail cm #N/A 0 Segment	0.1733 nt yld > 1.35				#N/A			•				_

0			5 1/2			Design	Factors -		- <0	hoose	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	4#/g mud, 30min Sfc Csg Test psig:					Totals:	0				0
		Cmt vol calc b	elow includes	this csg, TOC intended	#N/A	ft from su	urface or a	#N/A				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef e	st top XXXX.								

Carlsbad Field Office 1/18/2023

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** Devon Energy Production Company LP

LEASE NO.: NMNM125400

**LOCATION:** | Section 28, T.26 S., R.35 E., NMPM

**COUNTY:** Lea County, New Mexico

WELL NAME & NO.: | Arena Roja 28-33 Fed Com 701H

**SURFACE HOLE FOOTAGE:** 250'/N & 318'/W **BOTTOM HOLE FOOTAGE** 20'/S & 1030'/W

ATS/API ID: ATS-22-1137 APD ID: 10400084746

Sundry ID: N/A

WELL NAME & NO.: | Arena Roja 28-33 Fed Com 801H

SURFACE HOLE FOOTAGE: 250'/N & 288'/W BOTTOM HOLE FOOTAGE 20'/S & 380'/W ATS/API ID: ATS-22-1136

APD ID: | A18-22-1136 APD ID: | 10400084754

Sundry ID: N/A

COA

H2S	O Yes	O No	
Potash	None	☐ Secretary	R-111-P
Cave/Karst Potential	• Low	☐ Medium	☐ High
Cave/Karst Potential	Critical		
Variance	None	☐ Flex Hose	Other
Wellhead	Conventional	☐ Multibowl	Both
Wellhead Variance	Diverter		
Other	□4 String	□Capitan Reef	$\square$ WIPP
Other	Fluid Filled	☐ Pilot Hole	Open Annulus
Cementing	☐ Contingency		☐ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	<b>☑</b> COM	□ Unit
Special Requirements	✓ Break Testing	☐ Offline	☐ Batch Sundry
Variance	_	Cementing	-

#### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and

personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

#### B. CASING

- 1. The 10-3/4 inch surface casing shall be set at approximately 1115 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.
  - 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:

#### **Option 1 (Single Stage):**

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

#### **Option 2:**

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 7930' (Class H/C+ additives).
- b. Second stage:

• Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 855 sxs Class C)

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

- 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.

#### 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. Annular which shall be tested to 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

#### Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

#### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 14-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

## **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)

  - ✓ Lea CountyCall 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 2<sup>nd</sup> 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 1/18/2023

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CONDITIONS

Action 180363

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	180363
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	None	2/3/2023