eceived by UCD: 5/27/2023 12:59:04 PM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 01/27/2023
Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 28 / NWNE /	County or Parish/State:
Well Number: 703H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM97910	Unit or CA Name: ARENA ROJA FEDERAL	Unit or CA Number: NMNM112744X
US Well Number: 3002550859	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2706228

Type of Submission: Notice of Intent

Date Sundry Submitted: 12/12/2022

Date proposed operation will begin: 12/07/2022

Type of Action: APD Change Time Sundry Submitted: 08:03

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to move the SHL/BHL and depth on the subject well. Please see attached revised C102, Drill plan, directional plan. Permitted SHL: NWNE, 250 FNL, 2501 FEL, 28-26S-35E Proposed SHL: NWNE, 250 FNL, 2471 FEL, 28-26S-35E Proposed BHL: LOT 2, 20 FSL, 1650 FEL, 33-26S-35E Permitted TVD/MD: 12720/20141 Proposed TVD/MD: 12530/19982

NOI Attachments

Procedure Description

Arena_Roja_Fed_Unit_703H_20230117121355.pdf

Arena_Roja_Fed_Unit_703H_pad_plat_updated_20221212080201.pdf

WA018456286_ARENA_ROJA_FED_UNIT_703H_SIGNED_20221212075804.pdf

Arena_Roja_Fed_Unit_703H_Directional_Plan_11_22_22_20221212075804.pdf

Received by OCD: 1/27/2023 12:59:04 PM Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 28 / NWNE /	County or Parish/State: Page 2 of 2
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Conditions of Approval

Additional

28_26_35_B_Sundry_ID_2706228_Arena_Roja_Fed_Unit_703H_Lea_NM097910_DEVON_ENERGY_PRODUCTION_ COMPANY_LP_13_22d_8_30_2022_LV_20230118144544.pdf

Arena_Roja_Fed_Unit_703H_Sundry_ID_2706228_20230118144544.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

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:
Phone:
Email address:

State:

Zip:

Signed on: JAN 17, 2023 12:14 PM

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Phone: 5752342234 Disposition: Approved Signature: Chris Walls BLM POC Title: Petroleum Engineer BLM POC Email Address: cwalls@blm.gov Disposition Date: 01/24/2023

DISTRICT I 1625 N. FRENCH DR., 1 Phone: (575) 393-6161 F DISTRICT II 811 S. FIRST ST., A Phone: (575) 748-1833 DISTRICT III 1000 RIO BRAZOS R	RTESIA, NM Fax: (575) 74 D., AZTEC, 1	88210 88-9720 NM 87410	DIL C	erals & ONSE 220 S0	: Natı ERV. UTH	ıral F ATIC ST. Fl	v Mexico Resources D ON DIVI RANCIS DR. xico 87505	SION	Revised Au ubmit one copy to	orm C-102 Igust 1, 2011 5 appropriate ct Office
Phone: (505) 334-617 DISTRICT IV 1220 S. ST. FRANCIS D Phone: (505) 476-346										ED REPORT
		470-3462		CATION	AND	ACREA	GE DEDICAT			
API	Number		967			τa	RALINA. WC	Pool Name DLFCAMP, SOU	THWEST	
Property C	ode		, , , , , , , , , , , , , , , , , , , ,			erty Nam	e	<u>, 1000</u>	Well Num	
OCDID. N.				AREI			D UNIT		703	
0GRID No 6137			DEVON 1	ENERGY		^{ator Nam} DUCTI	ON COMPAN	Y, L.P.	Elevation 3155	
					Surfa	ce Loca	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet fr		North/South line	Feet from the	East/West line	County
В	28	26-S	35-E		25		NORTH	2471	EAST	LEA
UL or lot No.		m					rent From Su		TD 4 /TH 4 31	a d
UL or lot No.	Section 33	Township 26-S	Range 35-F	Lot Idn	Feet fro	om the	North/South line	Feet from the 1650	East/West line EAST	County LEA
Dedicated Acres			onsolidation C	Code Ord	ler No.			1000		
480										
	WABLE							RESTS HAVE BE	EN CONSOLIDA	ATED
		OR A	NON-STAN	DARD UN	IT HAS	BEEN	APPROVED BY	THE DIVISION		
Note: All bearings reci are based on the New	EL SEC. 33	N:372862.95 E:836514.66 V 00'33'19" W 2642.54 N:370220.54 E:836540.27 V 00'31'44" W 2643.33 N:367577.33 E:836554.67 V 00'33'54" W 2427.99 N:365149.45 E:836588.62	1 89'33'32" E 26 	W <u>N:3676</u> E:8392	9 803H SHI 9 703H SHI 703H	- BA - C - H - C - C - C - C - C - C - C - C	E:841797.65 P U U U U U U U U U U U U U U U U U U	herein is true a my knowledge a organization eiti or unleased min including the pi or has a right location pursual owner of such r or to a voluntai compulsory pool by the division. Signature Chelsey O Printed Name Chelsey.g E-mail Address SURVEYOD I hereby O shown on this p notes of actual under my super true and correct 11 De Signature & Se	reen@dvn.co	e best of this this interest e location this th an interest, int or a re entered (3/22 te M VION l location m field ne or e same is y belief. I Surveyor
are based on the New State Plane Coordinate NAD 83,New Mexico Ec 3001, US Survey Feet, distances are grid.	e System, ast Zone							Certificate No	1 1 · 22404 B.L.	/14/22 LAMAN BY: CM

Received by OCD: 1/27/2023 12:59:04 PM

As	Dril	led
/\3	~	icu

API	#	

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, LP.	ARENA ROJA FED UNIT	703H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
В	28	26S	35E		62	NORTH	1651	EAST	LEA
Latitude				Longitude		NAD			
32.0	32.0212				-103.3693				83

First Take Point (FTP)

UL B	Section 28	Township 26-S	Range 35-E	Lot	Feet 100	From N/S	Feet 1650	From E/W	County LEA
	Latitude 32.021218				Longitude 103.36	9187	NAD 83		

Last Take Point (LTP)

UL	Section 33	Township 26-S	Range 35-E	Lot 2	Feet 100	From N/S	Feet 1650	From E/W	County LEA
Latitu	ude Longitude .000578 103.369178						NAD		
32.	0005	18			103.	36917	8 S		83

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

Is this well an infill well?

Y

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

 DEVON ENERGY PRODUCTION COMPANY, LP
 ARENA ROJA FED UNIT
 804H

KZ 06/29/2018

1. Geologic Formations

TVD of target	12530	Pilot hole depth	N/A
MD at TD:	19982	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
rormation	from KB	Zone?	Huzur us
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		

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

2. Casing Program (Primary Design)

	Wt a la		Casing	Casing 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	11928	0	11928
7 7/8	5 1/2	17	P110	BTC	0	19982	0	12530

• 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	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	426	Surf	13.2	1.44	Lead: Class C Cement + additives
T 1	391	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	7928	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	855	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	391	Surf	9	3.27	Lead: Class C Cement + additives
	465	7928	13.2	1.44	Tail: Class H / C + additives
Production	117	10028	9	3.27	Lead: Class H /C + additives
Production	1053	12028	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%

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:	
			Anı	Annular X		50% of rated working pressure	
Int 1	13-5/8"	5M		l Ram	Х		
III I	15-5/0	5111	Pipe	Ram		5M	
			Doub	le Ram	Х	5141	
			Other*				
		10M	Annul	ar (5M)	х	100% of rated working	
			Alliulai (JWI)		21	pressure	
Production	13-5/8"		Blind Ram		X	10M	
Tioduction	15 5/0	10101	Pipe Ram				
			Double Ram		X		
			Other*				
			Annula	ar (5M)			
			Blind Ram Pipe Ram Double Ram				
			Other*				
N A variance is requested fo	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y A variance is requested to	A variance is requested to run a 5 M annular on a 10M system						

4. Pressure Control Equipment (Three String Design)

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

 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.
 Sufficient mud materials

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

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								
Х	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
Х	CBL	Production casing
Х	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 S	Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations						
greater than	greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is						
C	encountered measured values and formations will be provided to the BLM.						
	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.

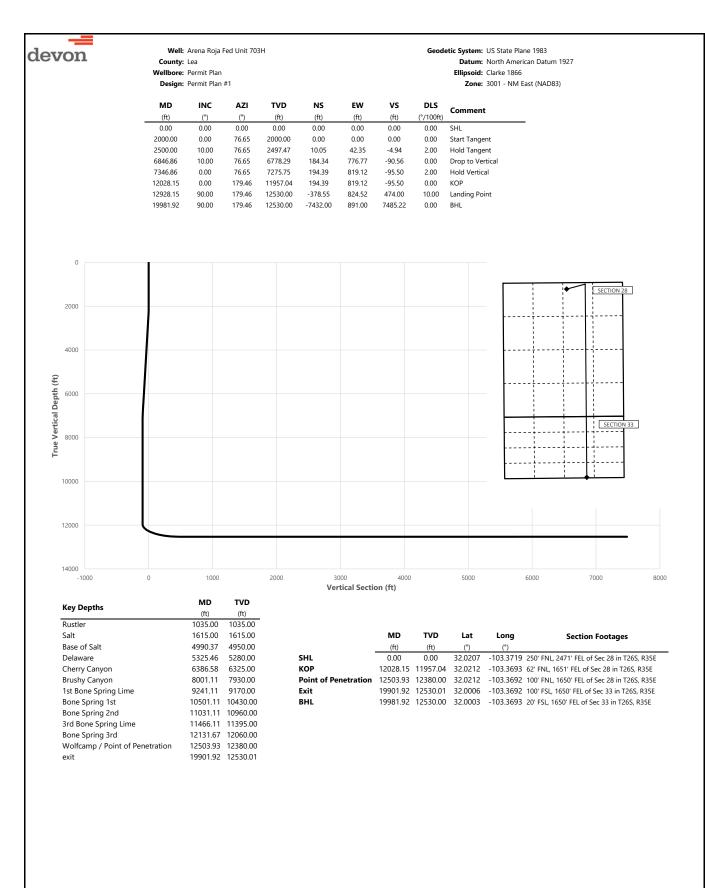
NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - 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



devon		Well:	Arena Roja	Fed Unit 703	н				Geodetic System: US State Plane 1983
aevon		County: Wellbore:	Lea Permit Plar						Datum: North American Datum 1927 Ellipsoid: Clarke 1866
			Permit Plan						Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
_	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
	100.00 200.00	0.00 0.00	76.65 76.65	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	300.00	0.00	76.65	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	76.65	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	76.65	500.00	0.00	0.00	0.00	0.00	
	600.00	0.00	76.65	600.00	0.00	0.00	0.00	0.00	
	700.00 800.00	0.00 0.00	76.65 76.65	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	900.00	0.00	76.65	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	76.65	1000.00	0.00	0.00	0.00	0.00	
	1035.00	0.00	76.65	1035.00	0.00	0.00	0.00	0.00	Rustler
	1100.00	0.00	76.65	1100.00	0.00	0.00	0.00	0.00	
	1200.00 1300.00	0.00 0.00	76.65 76.65	1200.00 1300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1400.00	0.00	76.65	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	76.65	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	76.65	1600.00	0.00	0.00	0.00	0.00	
	1615.00	0.00	76.65	1615.00	0.00	0.00	0.00	0.00	Salt
	1700.00	0.00	76.65	1700.00	0.00 0.00	0.00	0.00	0.00	
	1800.00 1900.00	0.00 0.00	76.65 76.65	1800.00 1900.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	2000.00	0.00	76.65	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	76.65	2099.98	0.40	1.70	-0.20	2.00	-
	2200.00	4.00	76.65	2199.84	1.61	6.79	-0.79	2.00	
	2300.00	6.00	76.65	2299.45	3.62	15.27	-1.78	2.00	
	2400.00 2500.00	8.00 10.00	76.65 76.65	2398.70 2497.47	6.44 10.05	27.13 42.35	-3.16 -4.94	2.00 2.00	Hold Tangent
	2600.00	10.00	76.65	2595.95	14.06	59.24	-6.91	0.00	hou rangent
	2700.00	10.00	76.65	2694.43	18.07	76.14	-8.88	0.00	
	2800.00	10.00	76.65	2792.91	22.08	93.03	-10.85	0.00	
	2900.00	10.00	76.65	2891.39	26.09	109.93	-12.82	0.00	
	3000.00 3100.00	10.00 10.00	76.65 76.65	2989.87 3088.35	30.10 34.11	126.82 143.72	-14.79 -16.76	0.00 0.00	
	3200.00	10.00	76.65	3186.83	38.12	160.62	-18.73	0.00	
	3300.00	10.00	76.65	3285.31	42.13	177.51	-20.70	0.00	
	3400.00	10.00	76.65	3383.79	46.14	194.41	-22.67	0.00	
	3500.00	10.00	76.65	3482.27	50.14	211.30	-24.64	0.00	
	3600.00 3700.00	10.00	76.65	3580.75 3679.23	54.15	228.20	-26.61	0.00 0.00	
	3700.00	10.00 10.00	76.65 76.65	3679.23	58.16 62.17	245.09 261.99	-28.58 -30.55	0.00	
	3900.00	10.00	76.65	3876.20	66.18	278.88	-32.51	0.00	
	4000.00	10.00	76.65	3974.68	70.19	295.78	-34.48	0.00	
	4100.00	10.00	76.65	4073.16	74.20	312.68	-36.45	0.00	
	4200.00	10.00	76.65	4171.64	78.21	329.57	-38.42	0.00	
	4300.00 4400.00	10.00 10.00	76.65 76.65	4270.12 4368.60	82.22 86.23	346.47 363.36	-40.39 -42.36	0.00 0.00	
	4400.00 4500.00	10.00	76.65	4368.60	90.23	380.26	-44.33	0.00	
	4600.00	10.00	76.65	4565.56	94.25	397.15	-46.30	0.00	
	4700.00	10.00	76.65	4664.04	98.26	414.05	-48.27	0.00	
	4800.00	10.00	76.65	4762.52	102.27	430.94	-50.24	0.00	
	4900.00 4990.37	10.00 10.00	76.65 76.65	4861.00 4950.00	106.28 109.90	447.84 463.11	-52.21 -53.99	0.00 0.00	Base of Salt
	5000.00	10.00	76.65	4959.48	110.29	464.74	-54.18	0.00	
	5100.00	10.00	76.65	5057.97	114.30	481.63	-56.15	0.00	
	5200.00	10.00	76.65	5156.45	118.31	498.53	-58.12	0.00	
	5300.00	10.00	76.65	5254.93	122.32	515.42	-60.09	0.00	
	5325.46	10.00	76.65	5280.00	123.34	519.72	-60.59	0.00	Delaware
	5400.00 5500.00	10.00 10.00	76.65 76.65	5353.41 5451.89	126.33 130.34	532.32 549.21	-62.06 -64.03	0.00 0.00	
	5600.00 5600.00	10.00	76.65	5451.89 5550.37	130.34 134.34	549.21 566.11	-64.03 -66.00	0.00	
	5700.00	10.00	76.65	5648.85	138.35	583.00	-67.97	0.00	
	5800.00	10.00	76.65	5747.33	142.36	599.90	-69.94	0.00	
	5900.00	10.00	76.65	5845.81	146.37	616.80	-71.91	0.00	
	6000.00	10.00	76.65	5944.29	150.38	633.69	-73.88	0.00	
	6100.00 6200.00	10.00 10.00	76.65 76.65	6042.77 6141.25	154.39 158.40	650.59 667.48	-75.85 -77.82	0.00 0.00	
1	6200.00 6300.00	10.00	76.65	6239.73	162.41	684.38	-77.82	0.00	
	6386.58	10.00	76.65	6325.00	165.88	699.01	-81.50	0.00	Cherry Canyon
	6400.00	10.00	76.65	6338.22	166.42	701.27	-81.76	0.00	
L									

r									
		147-17	Arona D	End Unit 700	_				Goodotic System LIC State Plane 1993
devon		Well: County:		Fed Unit 703	1				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plar	1					Ellipsoid: Clarke 1866
			Permit Plar						Zone: 3001 - NM East (NAD83)
	MD	INC	۸71		NC	E\M/	VC	חוכ	
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
-	6500.00	10.00	76.65	6436.70	170.43	718.17	-83.73	0.00	
	6600.00	10.00	76.65	6535.18	174.44	735.06	-85.70	0.00	
	6700.00	10.00	76.65	6633.66	178.45	751.96	-87.67	0.00	
	6800.00 6846.86	10.00 10.00	76.65 76.65	6732.14 6778.29	182.46 184.34	768.86 776.77	-89.64 -90.56	0.00 0.00	Drop to Vertical
	6900.00	8.94	76.65	6830.70	186.36	785.28	-90.56	2.00	prop to vertical
	7000.00	6.94	76.65	6929.74	189.54	798.71	-93.12	2.00	
	7100.00	4.94	76.65	7029.20	191.93	808.78	-94.29	2.00	
	7200.00	2.94	76.65	7128.96	193.52	815.46	-95.07	2.00	
	7300.00 7346.86	0.94 0.00	76.65 76.65	7228.89 7275.75	194.30 194.39	818.75 819.12	-95.46 -95.50	2.00 2.00	Hold Vertical
	7346.86	0.00	76.65 179.46	7328.89	194.39 194.39	819.12	-95.50 -95.50	2.00	
	7500.00	0.00	179.46	7428.89	194.39	819.12	-95.50	0.00	
	7600.00	0.00	179.46	7528.89	194.39	819.12	-95.50	0.00	
	7700.00	0.00	179.46	7628.89	194.39	819.12	-95.50	0.00	
	7800.00	0.00	179.46	7728.89	194.39	819.12	-95.50	0.00	
	7900.00 8000.00	0.00 0.00	179.46 179.46	7828.89 7928.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	8000.00	0.00	179.46	7928.89	194.39	819.12	-95.50	0.00	Brushy Canyon
	8100.00	0.00	179.46	8028.89	194.39	819.12	-95.50	0.00	
	8200.00	0.00	179.46	8128.89	194.39	819.12	-95.50	0.00	
	8300.00	0.00	179.46	8228.89	194.39	819.12	-95.50	0.00	
	8400.00 8500.00	0.00 0.00	179.46 179.46	8328.89 8428.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	8500.00 8600.00	0.00	179.46 179.46	8428.89 8528.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00	
	8700.00	0.00	179.46	8628.89	194.39	819.12	-95.50	0.00	
	8800.00	0.00	179.46	8728.89	194.39	819.12	-95.50	0.00	
	8900.00	0.00	179.46	8828.89	194.39	819.12	-95.50	0.00	
	9000.00	0.00	179.46 179.46	8928.89	194.39	819.12	-95.50	0.00	
	9100.00 9200.00	0.00 0.00	179.46 179.46	9028.89 9128.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	9241.11	0.00	179.46	9170.00	194.39	819.12	-95.50	0.00	1st Bone Spring Lime
	9300.00	0.00	179.46	9228.89	194.39	819.12	-95.50	0.00	
	9400.00	0.00	179.46	9328.89	194.39	819.12	-95.50	0.00	
	9500.00	0.00	179.46	9428.89	194.39	819.12	-95.50	0.00	
	9600.00 9700.00	0.00 0.00	179.46 179.46	9528.89 9628.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	9800.00	0.00	179.46	9628.89 9728.89	194.39	819.12	-95.50	0.00	
	9900.00	0.00	179.46	9828.89	194.39	819.12	-95.50	0.00	
	10000.00	0.00	179.46	9928.89	194.39	819.12	-95.50	0.00	
	10100.00	0.00	179.46	10028.89	194.39	819.12	-95.50	0.00	
	10200.00 10300.00	0.00 0.00	179.46 179.46	10128.89 10228.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	10300.00	0.00	179.46	10228.89	194.39 194.39	819.12	-95.50 -95.50	0.00	
	10500.00	0.00	179.46	10428.89	194.39	819.12	-95.50	0.00	
	10501.11	0.00	179.46	10430.00	194.39	819.12	-95.50	0.00	Bone Spring 1st
	10600.00	0.00	179.46	10528.89	194.39	819.12	-95.50	0.00	
	10700.00	0.00	179.46	10628.89	194.39	819.12	-95.50	0.00	
	10800.00 10900.00	0.00 0.00	179.46 179.46	10728.89 10828.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	11000.00	0.00	179.46	10928.89	194.39	819.12	-95.50	0.00	
	11031.11	0.00	179.46	10960.00	194.39	819.12	-95.50	0.00	Bone Spring 2nd
	11100.00	0.00	179.46	11028.89	194.39	819.12	-95.50	0.00	
	11200.00	0.00	179.46	11128.89	194.39	819.12	-95.50	0.00	
	11300.00 11400.00	0.00 0.00	179.46 179.46	11228.89 11328.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	11400.00	0.00	179.46 179.46	11328.89	194.39 194.39	819.12	-95.50 -95.50	0.00	3rd Bone Spring Lime
	11500.00	0.00	179.46	11428.89	194.39	819.12	-95.50	0.00	· · · · · · · · · · · · · · · · · · ·
	11600.00	0.00	179.46	11528.89	194.39	819.12	-95.50	0.00	
	11700.00	0.00	179.46	11628.89	194.39	819.12	-95.50	0.00	
	11800.00	0.00	179.46	11728.89	194.39	819.12	-95.50	0.00	
	11900.00 12000.00	0.00 0.00	179.46 179.46	11828.89 11928.89	194.39 194.39	819.12 819.12	-95.50 -95.50	0.00 0.00	
	12000.00	0.00	179.46	11928.89	194.39	819.12	-95.50	0.00	КОР
	12100.00	7.19	179.46	12028.70	189.89	819.16	-91.03	10.00	
	12131.67	10.35	179.46	12060.00	185.06	819.21	-86.23	10.00	Bone Spring 3rd
	12200.00	17.19	179.46	12126.33	168.81	819.36	-70.07	10.00	
	12300.00 12400.00	27.19 37.19	179.46 179.46	12218.81 12303.33	131.10 77.90	819.72 820.22	-32.59 20.29	10.00 10.00	
	12400.00	37.19 47.19	179.46	12303.33	10.84	820.22 820.85	20.29 86.95	10.00	

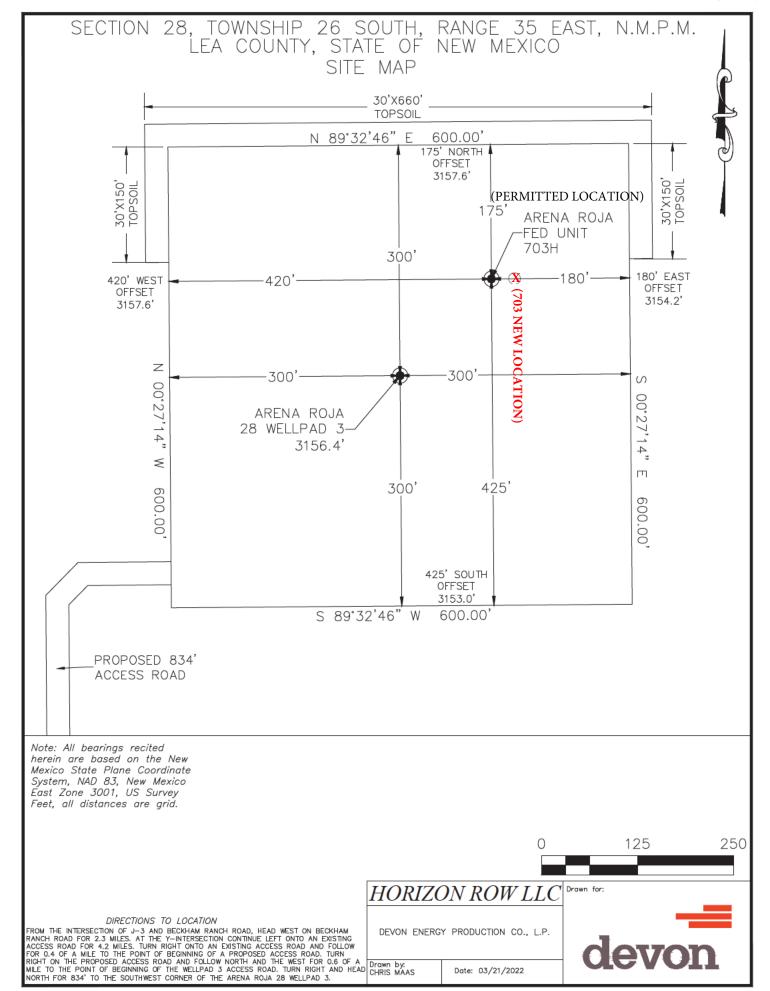
dorron		Well:	Arena Roja	Fed Unit 703	н				Geodetic System: US State Plane 1983
devon		County:	Lea						Datum: North American Datum 1927
			Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	#1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
	12503.93	47.58	179.46	12380.00	7.94	820.88	89.83	10.00	Wolfcamp / Point
	12600.00 12700.00	57.19 67.19	179.46 179.46	12438.57 12485.17	-68.06 -156.39	821.59 822.43	165.37 253.17	10.00 10.00	
	12800.00	77.19	179.46	12515.73	-251.47	823.32	347.68	10.00	
	12900.00	87.19	179.46	12529.31	-350.41	824.26	446.03	10.00	
	12928.15	90.00	179.46	12530.00	-378.55	824.52	474.00	10.00	Landing Point
	13000.00 13100.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-450.39 -550.39	825.20 826.14	545.42 644.82	0.00 0.00	
	13200.00	90.00	179.46	12530.00	-650.38	827.08	744.21	0.00	
	13300.00	90.00	179.46	12530.00	-750.38	828.03	843.61	0.00	
	13400.00	90.00	179.46	12530.00	-850.38	828.97	943.01	0.00	
	13500.00 13600.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-950.37 -1050.37	829.91 830.85	1042.40 1141.80	0.00 0.00	
	13700.00	90.00	179.46	12530.00	-1150.36	831.80	1241.20	0.00	
	13800.00	90.00	179.46	12530.00	-1250.36	832.74	1340.59	0.00	
	13900.00	90.00	179.46	12530.00	-1350.35	833.68	1439.99	0.00	
	14000.00 14100.00	90.00 90.00	179.46 179.46	12530.00	-1450.35 -1550.34	834.63 835.57	1539.39 1638 78	0.00 0.00	
	14100.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-1550.34 -1650.34	835.57 836.51	1638.78 1738.18	0.00	
	14300.00	90.00	179.46	12530.00	-1750.34	837.45	1837.58	0.00	
	14400.00	90.00	179.46	12530.00	-1850.33	838.40	1936.97	0.00	
	14500.00	90.00	179.46	12530.00	-1950.33	839.34	2036.37	0.00	
	14600.00 14700.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-2050.32 -2150.32	840.28 841.22	2135.77 2235.16	0.00 0.00	
	14800.00	90.00	179.46	12530.00	-2250.31	842.17	2334.56	0.00	
	14900.00	90.00	179.46	12530.00	-2350.31	843.11	2433.96	0.00	
	15000.00	90.00	179.46	12530.00	-2450.30	844.05	2533.35	0.00	
	15100.00 15200.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-2550.30 -2650.30	845.00 845.94	2632.75 2732.15	0.00 0.00	
	15300.00	90.00	179.46	12530.00	-2750.29	846.88	2831.55	0.00	
	15400.00	90.00	179.46	12530.00	-2850.29	847.82	2930.94	0.00	
	15500.00	90.00	179.46	12530.00	-2950.28	848.77	3030.34	0.00	
	15600.00 15700.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-3050.28 -3150.27	849.71 850.65	3129.74 3229.13	0.00 0.00	
	15800.00	90.00	179.46	12530.00	-3250.27	851.59	3328.53	0.00	
	15900.00	90.00	179.46	12530.00	-3350.26	852.54	3427.93	0.00	
	16000.00	90.00 90.00	179.46	12530.00	-3450.26 -3550.26	853.48	3527.32	0.00	
	16100.00 16200.00	90.00	179.46 179.46	12530.00 12530.00	-3650.26	854.42 855.37	3626.72 3726.12	0.00 0.00	
	16300.00	90.00	179.46	12530.00	-3750.25	856.31	3825.51	0.00	
	16400.00	90.00	179.46	12530.00	-3850.24	857.25	3924.91	0.00	
	16500.00 16600.00	90.00 90.00	179.46 179.46	12530.00 12530.00	-3950.24 -4050.23	858.19 859.14	4024.31 4123.70	0.00 0.00	
	16700.00	90.00	179.46	12530.00	-4150.23	860.08	4123.70	0.00	
	16800.00	90.00	179.46	12530.01	-4250.22	861.02	4322.50	0.00	
	16900.00	90.00	179.46	12530.01	-4350.22	861.96	4421.89	0.00	
	17000.00 17100.00	90.00 90.00	179.46 179.46	12530.01 12530.01	-4450.22 -4550.21	862.91 863.85	4521.29 4620.69	0.00 0.00	
	17200.00	90.00	179.46	12530.01	-4650.21	864.79	4020.09	0.00	
	17300.00	90.00	179.46	12530.01	-4750.20	865.74	4819.48	0.00	
	17400.00	90.00	179.46	12530.01	-4850.20	866.68	4918.88	0.00	
	17500.00 17600.00	90.00 90.00	179.46 179.46	12530.01 12530.01	-4950.19 -5050.19	867.62 868.56	5018.27 5117.67	0.00 0.00	
	17700.00	90.00	179.46	12530.01	-5150.18	869.51	5217.07	0.00	
	17800.00	90.00	179.46	12530.01	-5250.18	870.45	5316.47	0.00	
	17900.00	90.00	179.46	12530.01	-5350.18	871.39	5415.86	0.00	
	18000.00 18100.00	90.00 90.00	179.46 179.46	12530.01 12530.01	-5450.17 -5550.17	872.33 873.28	5515.26 5614.66	0.00 0.00	
	18200.00	90.00	179.46	12530.01	-5650.16	874.22	5714.05	0.00	
	18300.00	90.00	179.46	12530.01	-5750.16	875.16	5813.45	0.00	
	18400.00	90.00	179.46	12530.01	-5850.15	876.11	5912.85	0.00	
	18500.00	90.00	179.46	12530.01	-5950.15	877.05 877.00	6012.24	0.00	
	18600.00 18700.00	90.00 90.00	179.46 179.46	12530.01 12530.01	-6050.14 -6150.14	877.99 878.93	6111.64 6211.04	0.00 0.00	
	18800.00	90.00	179.46	12530.01	-6250.14	879.88	6310.43	0.00	
	18900.00	90.00	179.46	12530.01	-6350.13	880.82	6409.83	0.00	
	19000.00 19100.00	90.00 90.00	179.46 179.46	12530.01	-6450.13 -6550.12	881.76 882.70	6509.23 6608.62	0.00 0.00	
	19100.00	90.00 90.00	179.46 179.46	12530.01 12530.01	-6550.12 -6650.12	882.70 883.65	6708.02	0.00	
	19300.00	90.00	179.46	12530.01	-6750.11	884.59	6807.42	0.00	

devon		County: Wellbore:	,		н				Geodetic System: US State Plane 1983 Datum: North American Datum Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83		
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment		
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)			
	19400.00	90.00	179.46	12530.01	-6850.11	885.53	6906.81	0.00			
	19500.00	90.00	179.46	12530.01	-6950.10	886.48	7006.21	0.00			
	19600.00	90.00	179.46	12530.01	-7050.10	887.42	7105.61	0.00			
	19700.00	90.00	179.46	12530.01	-7150.10	888.36	7205.00	0.00			
	19800.00	90.00	179.46	12530.01	-7250.09	889.30	7304.40	0.00			
	19900.00	90.00	179.46	12530.01	-7350.09	890.25	7403.80	0.00			
	19901.92	90.00	179.46	12530.01	-7352.00	890.26	7405.70	0.00	exit		
	19981.92	90.00	179.46	12530.00	-7432.00	891.00	7485.22	0.00	BHL		

.

	County: Wellbore:	Lea Permit Plan		Н				Datum: Ellipsoid:	: US State Plane 1983 : North American Datum 1927 : Clarke 1866 : 2001 - NM Sert (NAD22)
MD	INC	Permit Plan	TVD	NS	EW	vs	DLS	Commont	: 3001 - NM East (NAD83)
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)		

Received by OCD: 1/27/2023 12:59:04 PM



Received by OCD: 1/27/2023 12:59:04 PM

Page 17 of 28 28-26-35-B Sundry ID 2706228 Arena Roja Fed Unit 703H Lea NM097910 DEVON ENERGY PRODUCTION COMPANY LP 13-22d 8-30-2022 LV.xlsm

Arena Roja Fed Unit 703H

	Suri	ace csg in a	13 1/2	inch hole.		Design	Factors			Surface	2	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.50		h 40	btc	10.12	2.67	0.35	1,115	5	0.59	5.04	45,158
"B"				btc				0				0
	w/8.4#/§	g mud, 30min Sfc Csg Test (osig: 1,109	Tail Cmt	does not	circ to sfc.	Totals:	1,115				45,158
omparison o	f Proposed to Mi	nimum Required Ceme	ent Volumes					,				
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'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	3882	5M				1.38
urst Frac Grad	dient(s) for Segme	nt(s) A, B = , b All > C	.70, OK.									
		· — · — · — · — · — · — · — · — · — ·	_ <i></i>		· — · — · —				-			
85/8		g inside the	10 3/4			Design				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		р 110	vam sprint fj	1.95	0.61	1.05	11,928	1	1.75	1.03	381,696
"B"								0				0
	w/8.4#/g	g mud, 30min Sfc Csg Test					Totals:	11,928				381,696
				nded to achieve a top of	0	ft from su		1115				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
9 7/8	0.1261	856	1948	1526	28	10.50	4078	5M				0.61
V Tool(s):			7930				sum of sx	<u>Σ CuFt</u>				Σ%exces
oy stage % :		286	21				1711	3179				108
Tail cmt												
	cocin	g incide the	9 F /9			Decign Fo	otoro		a a	Dued 1		
5 1/2 Sogmont		g inside the Grado	8 5/8	Coupling	Body	Design Fa		Longth	- P@a	Prod 1		Woigh
Segment	#/ft	g inside the Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	-
Segment "A"		0	8 5/8 p 110	Coupling btc	Body 2.56			19,982	B@s 2		a-C	339,69
Segment	#/ft 17.00	Grade	p 110	• •	-	Collapse	Burst 1.56	19,982 0	-	a-B	a-C	339,69 0
Segment "A"	#/ft 17.00	Grade	p 110	btc	2.56	Collapse 1.09	Burst 1.56 Totals:	19,982 0 19,982	-	a-B	a-C	339,69 0 339,69
Segment "A" "B"	#/ft 17.00 w/8.4#/g	Grade ; mud, 30min Sfc Csg Test ; The cement	p 110 osig: 2,757 volume(s) are inter	btc nded to achieve a top of	2.56 11728	Collapse 1.09 ft from su	Burst 1.56 Totals:	19,982 0 19,982 200	-	a-B	a-C	339,694 0 339,694 overlap.
Segment "A" "B" Hole	#/ft 17.00 w/8.4#/g Annular	Grade mud, 30min Sfc Csg Test (The cement v 1 Stage	p 110 osig: 2,757 volume(s) are inter 1 Stage	btc nded to achieve a top of Min	2.56 11728 1 Stage	Collapse 1.09 ft from su Drilling	Burst 1.56 Totals: Irface or a Calc	19,982 0 19,982 200 Req'd	-	a-B	a-C	339,694 overlap. Min Dist
Segment "A" "B" Hole Size	#/ft 17.00 w/8.4#/g Annular Volume	Grade mud, 30min Sfc Csg Test (The cement 1 Stage Cmt Sx	p 110 osig: 2,757 volume(s) are inter 1 Stage CuFt Cmt	btc nded to achieve a top of Min Cu Ft	2.56 11728 1 Stage % Excess	Collapse 1.09 ft from su Drilling Mud Wt	Burst 1.56 Totals:	19,982 0 19,982 200	-	a-B	a-C	339,694 0 339,694 overlap. Min Dist Hole-Cpl
Segment "A" "B" Hole Size 7 7/8	#/ft 17.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test (The cement v 1 Stage	p 110 osig: 2,757 volume(s) are inter 1 Stage	btc nded to achieve a top of Min	2.56 11728 1 Stage	Collapse 1.09 ft from su Drilling	Burst 1.56 Totals: Irface or a Calc	19,982 0 19,982 200 Req'd	-	a-B	a-C	339,694 0 339,694 overlap.
Segment "A" "B" Hole Size 7 7/8	#/ft 17.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test (The cement 1 Stage Cmt Sx	p 110 osig: 2,757 volume(s) are inter 1 Stage CuFt Cmt	btc nded to achieve a top of Min Cu Ft	2.56 11728 1 Stage % Excess	Collapse 1.09 ft from su Drilling Mud Wt	Burst 1.56 Totals: Irface or a Calc	19,982 0 19,982 200 Req'd	-	a-B	a-C	339,69 0 339,69 overlap. Min Dis Hole-Cpl
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cn	#/ft 17.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test (The cement 1 Stage Cmt Sx	p 110 osig: 2,757 volume(s) are inter 1 Stage CuFt Cmt	btc nded to achieve a top of Min Cu Ft	2.56 11728 1 Stage % Excess	Collapse 1.09 ft from su Drilling Mud Wt	Burst 1.56 Totals: Inface or a Calc MASP	19,982 0 19,982 200 Req'd	2	a-B	a-C 1.83	339,69 0 339,69 overlap. Min Dis Hole-Cpl
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment	#/ft 17.00 w/8.4#/g Annular Volume 0.1733	Grade mud, 30min Sfc Csg Test (The cement 1 Stage Cmt Sx	p 110 osig: 2,757 rolume(s) are inter 1 Stage CuFt Cmt 1899	btc nded to achieve a top of Min Cu Ft	2.56 11728 1 Stage % Excess	Collapse 1.09 ft from su Drilling Mud Wt 10.50	Burst 1.56 Totals: Inface or a Calc MASP	19,982 0 19,982 200 Req'd	2	a-B 2.61	a-C 1.83	339,69 0 339,69 overlap. Min Dis Hole-Cpl 0.91
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail on #N/A 0	#/ft 17.00 w/8.4#/g Annular Volume 0.1733 ht yld > 1.35	Grade mud, 30min Sfc Csg Test (The cement v 1 Stage Cmt Sx 1170	p 110 osig: 2,757 rolume(s) are inter 1 Stage CuFt Cmt 1899	btc Inded to achieve a top of Min Cu Ft 1431	2.56 11728 1 Stage % Excess 33	Collapse 1.09 ft from su Drilling Mud Wt 10.50 Design	Burst 1.56 Totals: Inface or a Calc MASP Factors	19,982 0 19,982 200 Req'd BOPE	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cpl
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment	#/ft 17.00 w/8.4#/g Annular Volume 0.1733 ht yld > 1.35	Grade mud, 30min Sfc Csg Test (The cement v 1 Stage Cmt Sx 1170	p 110 osig: 2,757 rolume(s) are inter 1 Stage CuFt Cmt 1899	btc Inded to achieve a top of Min Cu Ft 1431 Coupling	2.56 11728 1 Stage % Excess 33	Collapse 1.09 ft from su Drilling Mud Wt 10.50 Design	Burst 1.56 Totals: Inface or a Calc MASP Factors	19,982 0 19,982 200 Req'd BOPE	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cpl 0.91 Weigh
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail on #N/A 0 Segment "A"	#/ft 17.00 w/8.4#/e Annular Volume 0.1733 ht yld > 1.35 #/ft	Grade mud, 30min Sfc Csg Test (The cement v 1 Stage Cmt Sx 1170	p 110 p 110 point (s) are inter 1 Stage CuFt Cmt 1899 5 1/2	btc nded to achieve a top of Min Cu Ft 1431 Coupling 0.00	2.56 11728 1 Stage % Excess 33	Collapse 1.09 ft from su Drilling Mud Wt 10.50 Design	Burst 1.56 Totals: Inface or a Calc MASP Factors	19,982 0 19,982 200 Req'd BOPE	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cp 0.91 Weigh
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail on #N/A 0 Segment "A"	#/ft 17.00 w/8.4#/e Annular Volume 0.1733 ht yld > 1.35 #/ft	Grade mud, 30min Sfc Csg Test t The cement v 1 Stage Cmt Sx 1170 Grade gmud, 30min Sfc Csg Test t	p 110 p 110 posig: 2,757 volume(s) are inter 1 Stage CuFt Cmt 1899 5 1/2	btc nded to achieve a top of Min Cu Ft 1431 Coupling 0.00	2.56 11728 1 Stage % Excess 33	Collapse 1.09 ft from su Drilling Mud Wt 10.50 Design	Burst 1.56 Totals: urface or a Calc MASP Factors Burst Totals:	19,982 0 19,982 200 Req'd BOPE	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0
Segment "A" "B" Hole Size 7 7/8 class 'C' tail on #N/A 0 Segment "A"	#/ft 17.00 w/8.4#/e Annular Volume 0.1733 ht yld > 1.35 #/ft	Grade mud, 30min Sfc Csg Test t The cement v 1 Stage Cmt Sx 1170 Grade gmud, 30min Sfc Csg Test t	p 110 p 110 posig: 2,757 volume(s) are inter 1 Stage CuFt Cmt 1899 5 1/2	btc nded to achieve a top of Min Cu Ft 1431 Coupling 0.00 0.00	2.56 11728 1 Stage % Excess 33 #N/A	Collapse 1.09 It from su Drilling Mud Wt 10.50 <u>Design</u> Collapse	Burst 1.56 Totals: urface or a Calc MASP Factors Burst Totals:	19,982 0 19,982 200 Req'd BOPE	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 0 0 0 0 0 0
Segment "A" "B" Hole Size 7 7/8 class 'C' tail on #N/A 0 Segment "A" "B"	#/ft 17.00 w/8.4#/g Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4#/g	Grade mud, 30min Sfc Csg Test t The cement to 1 Stage Cmt Sx 1170 Grade gmud, 30min Sfc Csg Test t Cmt vol ca	p 110 p 110 posig: 2,757 volume(s) are inter 1 Stage CuFt Cmt 1899 5 1/2 posig: alc below includes	btc nded to achieve a top of Min Cu Ft 1431 Coupling 0.00 0.00 this csg, TOC intended	2.56 11728 1 Stage % Excess 33 #N/A	Collapse 1.09 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse	Burst 1.56 Totals: urface or a Calc MASP Factors Burst Totals: urface or a	19,982 0 19,982 200 Req'd BOPE Length 0 0 0 #N/A	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cpi 0.91 Weigh 0 0
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail on #N/A 0 Segment "A" "B" Hole	#/ft 17.00 w/8.4#/{ Annular Volume 0.1733 it yld > 1.35 #/ft w/8.4#/{ Annular	Grade mud, 30min Sfc Csg Test i The cement vi 1 Stage Cmt Sx 1170 Grade gmud, 30min Sfc Csg Test i Cmt vol ci 1 Stage	p 110 p 110 polyme(s) are inter 1 Stage CuFt Cmt 1899 5 1/2 polymeric 5 1/2 polymeric 1 Stage 1 Stage	btc Inded to achieve a top of Min Cu Ft 1431 Coupling 0.00 0.00 this csg, TOC intended Min	2.56 11728 1 Stage % Excess 33 #N/A 1 Stage	Collapse 1.09 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse ft from su Drilling	Burst 1.56 Totals: urface or a Calc MASP Factors Burst Totals: urface or a Calc	19,982 0 19,982 200 Req'd BOPE Length 0 0 0 #N/A Req'd	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cpl 0.91 Weigh 0 0 0 0 overlap. Min Dis
Segment "A" "B" Hole Size 7 7/8 lass 'C' tail on \$ segment "A" "B" Hole Size	#/ft 17.00 w/8.4#/{ Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4#/{ Annular	Grade ; mud, 30min Sfc Csg Test ; The cement v 1 Stage Cmt Sx 1170 Grade ; mud, 30min Sfc Csg Test ; Cmt vol ca 1 Stage Cmt Sx	p 110 p 110 psig: 2,757 rolume(s) are inter 1 Stage CuFt Cmt 1899 5 1/2 psig: alc below includes 1 Stage CuFt Cmt	btc Inded to achieve a top of Min Cu Ft 1431 Coupling 0.00 0.00 this csg, TOC intended Min Cu Ft 0	2.56 11728 1 Stage % Excess 33 #N/A 1 Stage % Excess	Collapse 1.09 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse ft from su Drilling	Burst 1.56 Totals: urface or a Calc MASP Factors Burst Totals: urface or a Calc	19,982 0 19,982 200 Req'd BOPE Length 0 0 0 #N/A Req'd	2	a-B 2.61	a-C 1.83 sing>	339,69 0 339,69 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 overlap. Min Dis

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM097910
LOCATION:	Section 28, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	Arena Roja Fed Unit 703H
SURFACE HOLE FOOTAGE:	250'/N & 2471'/E
BOTTOM HOLE FOOTAGE	20'/S & 1650'/E
ATS/API ID:	
APD ID:	
Sundry ID:	2706228
WELL NAME & NO.:	Arena Roja Fed Unit 705H
SURFACE HOLE FOOTAGE:	250'/N & 1102'/E
BOTTOM HOLE FOOTAGE	20'/S & 350'/E
ATS/API ID:	
APD ID:	
Sundry ID:	2706231
	1
WELL NAME & NO.:	Arena Roja Fed Unit 803H
SURFACE HOLE FOOTAGE:	250'/N & 2501'/E
BOTTOM HOLE FOOTAGE	20'/S & 2300'/E
ATS/API ID:	
APD ID:	
Sundry ID:	2706230
WELL NAME & NO.:	Arena Roja Fed Unit 805H
SURFACE HOLE FOOTAGE:	250'/N & 1132'/E
BOTTOM HOLE FOOTAGE	20'/S & 1000'/E
ATS/API ID:	10 40000 4027
APD ID:	
Sundry ID:	2706233

COA

H2S	🖸 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	WIPP
Other	✓ Fluid Filled	🗌 Pilot Hole	□ Open Annulus
Cementing		EchoMeter	Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	□ Water Disposal	□ COM	Unit 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

- 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 <u>8</u> <u>hours</u> 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. <u>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.</u>

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)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a

participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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)
 - 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. 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

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 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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	180376
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	2/3/2023

Page 28 of 28