eceived by UCD: 5/27/2023 1:03:05 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 / NENE /	County or Parish/State:
Well Number: 805H	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: 3002550864	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2706233

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: 09:03

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: NENE, 250 FNL, 1102 FEL, 28-26S-35E Proposed SHL: NENE, 250 FNL, 1132 FEL, 28-26S-35E Permitted BHL: LOT 1, 20 FSL, 330 FEL, 33-26S-35E Proposed BHL: LOT 1, 20 FSL, 1000 FEL, 33-26S-35E Permitted TVD/MD: 13060/20519 Proposed TVD/MD: 21900/20295

NOI Attachments

Procedure Description

Arena_Roja_Fed_Unit_805H_20230117120926.pdf

Arena_Roja_Fed_Unit_805H_pad_plat_updated_20221212090217.pdf

WA018457285_ARENA_ROJA_FED_UNIT_805H_SIGNED_20221212085820.pdf

Arena_Roja_Fed_Unit_805H_Directional_Plan_11_22_22_20221212085819.pdf

R	eceived by OCD: 1/27/2023 1:03:05 PM Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 28 / NENE /	County or Parish/State: Page 2 of	28
	Well Number: 805H	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: 3002550864	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Conditions of Approval

Additional

Arena_Roja_Fed_Unit_805H_Sundry_ID_2706228_20230118145053.pdf

28_26_35_B_Sundry_ID_2706230_Arena_Roja_Fed_Unit_803H_Lea_NM097910_DEVON_ENERGY_PRODUCTION_ COMPANY_LP_13_22d_8_30_2022_LV_20230118145053.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:

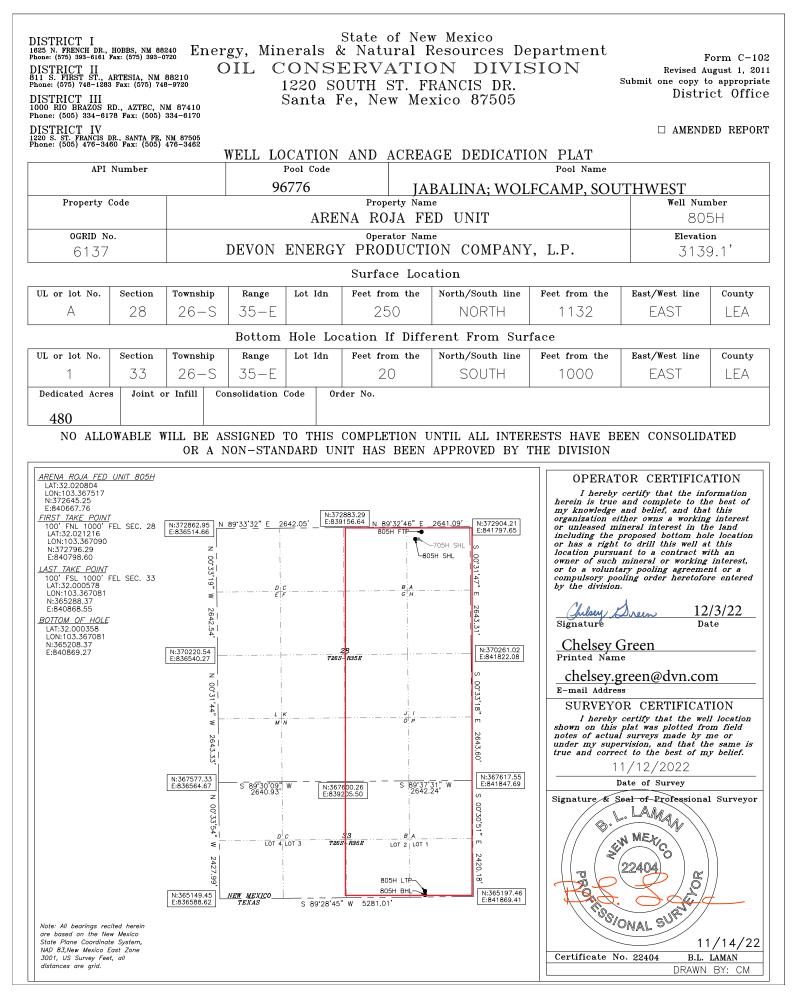
Zip:

Signed on: JAN 17, 2023 12:09 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

Released to Imaging: 2/3/2023 8:26:35 AM



Released to Imaging: 2/3/2023 8:26:35 AM

Received by OCD: 1/27/2023 1:03:05 PM

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As	Dril	led

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	/	

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, LP.	ARENA ROJA FED UNIT	805H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
А	28	26S	35E		65	NORTH	1000	EAST	LEA
Latitude			Longitude			NAD			
32.0212			-103.3672			83			

First Take Point (FTP)

UL A	Section 28	Township 26-S	Range 35-E	Lot	Feet 100	From N/S	Feet 1000	From E/W EAST	County LEA
	Latitude 32.021216			Longitude 103.36	7090			NAD 83	

Last Take Point (LTP)

UL	Section 33	Township 26-S	Range 35-E	Lot 1	Feet 100	From N/S	Feet 1000	From E/W EAST	County LEA
Latitude			Ű	Longitude			NAD		
32.000578			103.	103.367081			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	12900	Pilot hole depth	N/A
MD at TD:	20295	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	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		

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

2. Casing Program (Primary Design)

		Wt			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	12244	0	12244
7 7/8	5 1/2	17	P110	BTC	0	20295	0	12900

• 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 Desi	ign)			
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
1111 1	501	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	501	7930	13.2	1.44	Tail: Class H / C + additives
	117	10344	9	3.27	Lead: Class H /C + additives
Production	1052	12344	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	уре	~	Tested to:
		Annular		Annular		50% of rated working pressure
Int 1	13-5/8"	5M	Bline	d Ram	Х	
IIII I	13-3/8	JIVI	Pipe	Ram		5M
			Doub	le Ram	Х	5101
			Other*			T I
			Annular (5M)		Х	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		Х	
Floduction		10101	Pipe Ram			10M
			Doub	le Ram	Х	10101
			Other*			
			Annul	ar (5M)		
			Blind	d Ram		
			Pipe Ram			
			Double Ram			1
			Other*]
N A variance is requested for	the use of a	a diverter or	n the surface	casing. See	attached for	schematic.
Y A variance is requested to r	run a 5 M a	nnular on a	10M system	l		

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

6. Logging and Testing Procedures

Logging, C	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 Report 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.

Additiona	al 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	7043
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							
encountered	encountered measured values and formations will be provided to the BLM.							
N	H2S is present							
Y	H2S plan attached.							

8. Other facets of operation

Is this a walking operation? Potentially

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

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

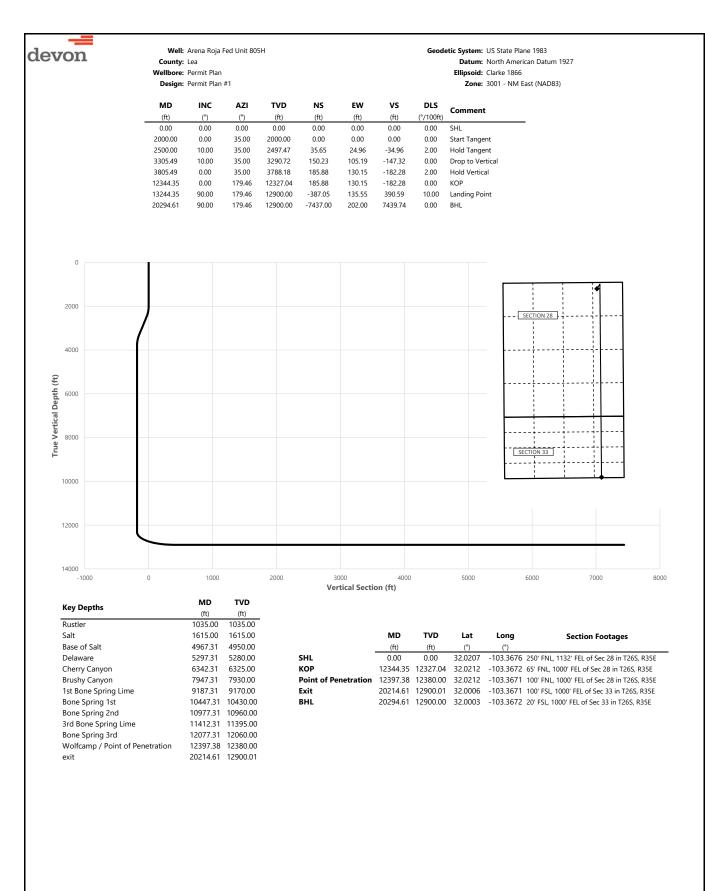
Will be pre-setting casing? Potentially

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

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

Attachments

X Directional Plan Other, describe



· · · · ·									
devon		Well:	Arena Roja	Fed Unit 805	н				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
			Permit Plan						Ellipsoid: Clarke 1866
		Design:	Permit Plar	1#1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	35.00	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	35.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	35.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	35.00	400.00	0.00	0.00	0.00	0.00	
	500.00 600.00	0.00 0.00	35.00 35.00	500.00 600.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	
	700.00	0.00	35.00	700.00	0.00	0.00 0.00	0.00	0.00	
	800.00	0.00	35.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	35.00	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	35.00	1000.00	0.00	0.00	0.00	0.00	
	1035.00	0.00	35.00	1035.00	0.00	0.00	0.00	0.00	Rustler
	1100.00	0.00	35.00	1100.00	0.00	0.00	0.00	0.00	
	1200.00 1300.00	0.00 0.00	35.00 35.00	1200.00 1300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1400.00	0.00	35.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	35.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	35.00	1600.00	0.00	0.00	0.00	0.00	
	1615.00	0.00	35.00	1615.00	0.00	0.00	0.00	0.00	Salt
	1700.00	0.00	35.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	35.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00 2000.00	0.00 0.00	35.00 35.00	1900.00 2000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Start Tangent
	2000.00	2.00	35.00	2000.00	1.43	1.00	-1.40	2.00	Start Tangent
	2200.00	4.00	35.00	2199.84	5.72	4.00	-5.61	2.00	
	2300.00	6.00	35.00	2299.45	12.86	9.00	-12.61	2.00	
	2400.00	8.00	35.00	2398.70	22.84	15.99	-22.40	2.00	
	2500.00	10.00	35.00	2497.47	35.65	24.96	-34.96	2.00	Hold Tangent
	2600.00	10.00	35.00	2595.95	49.88	34.92	-48.91	0.00	
	2700.00 2800.00	10.00 10.00	35.00 35.00	2694.43 2792.91	64.10 78.32	44.88 54.84	-62.86 -76.81	0.00 0.00	
	2900.00	10.00	35.00	2891.39	92.55	64.80	-90.76	0.00	
	3000.00	10.00	35.00	2989.87	106.77	74.76	-104.70	0.00	
	3100.00	10.00	35.00	3088.35	121.00	84.72	-118.65	0.00	
	3200.00	10.00	35.00	3186.83	135.22	94.68	-132.60	0.00	
	3300.00	10.00	35.00	3285.31	149.45	104.64	-146.55	0.00	
	3305.49 3400.00	10.00 8.11	35.00 35.00	3290.72 3384.05	150.23	105.19 113.72	-147.32 -159.26	0.00 2.00	Drop to Vertical
	3500.00	6.11	35.00	3384.03 3483.27	162.41 172.55	120.82	-169.20	2.00	
	3600.00	4.11	35.00	3582.87	179.84	125.93	-176.36	2.00	
	3700.00	2.11	35.00	3682.72	184.29	129.04	-180.72	2.00	
	3800.00	0.11	35.00	3782.69	185.87	130.15	-182.27	2.00	
	3805.49	0.00	35.00	3788.18	185.88	130.15	-182.28	2.00	Hold Vertical
	3900.00 4000.00	0.00 0.00	179.46	3882.69 3982.69	185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	4000.00	0.00	179.46 179.46	4082.69	185.88 185.88	130.15	-182.28	0.00	
	4200.00	0.00	179.46	4182.69	185.88	130.15	-182.28	0.00	
	4300.00	0.00	179.46	4282.69	185.88	130.15	-182.28	0.00	
	4400.00	0.00	179.46	4382.69	185.88	130.15	-182.28	0.00	
	4500.00	0.00	179.46	4482.69	185.88	130.15	-182.28	0.00	
	4600.00 4700.00	0.00	179.46	4582.69	185.88	130.15 130.15	-182.28	0.00	
	4800.00	0.00 0.00	179.46 179.46	4682.69 4782.69	185.88 185.88	130.15	-182.28 -182.28	0.00 0.00	
	4900.00	0.00	179.46	4882.69	185.88	130.15	-182.28	0.00	
	4967.31	0.00	179.46	4950.00	185.88	130.15	-182.28	0.00	Base of Salt
	5000.00	0.00	179.46	4982.69	185.88	130.15	-182.28	0.00	
	5100.00	0.00	179.46	5082.69	185.88	130.15	-182.28	0.00	
	5200.00	0.00	179.46	5182.69	185.88	130.15	-182.28	0.00	
	5297.31	0.00	179.46	5280.00	185.88	130.15	-182.28	0.00	Delaware
	5300.00 5400.00	0.00 0.00	179.46 179.46	5282.69 5382.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	5500.00	0.00	179.46	5482.69	185.88	130.15	-182.28	0.00	
	5600.00	0.00	179.46	5582.69	185.88	130.15	-182.28	0.00	
	5700.00	0.00	179.46	5682.69	185.88	130.15	-182.28	0.00	
	5800.00	0.00	179.46	5782.69	185.88	130.15	-182.28	0.00	
	5900.00	0.00	179.46	5882.69	185.88	130.15	-182.28	0.00	
	6000.00 6100.00	0.00 0.00	179.46 179.46	5982.69 6082.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	6200.00	0.00	179.46	6182.69	185.88	130.15	-182.28	0.00	
	6300.00	0.00	179.46	6282.69	185.88	130.15	-182.28	0.00	

		Well:	Arena Roja	Fed Unit 805H	4				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
			Permit Plan Permit Plan						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
		-							
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
-	6342.31	0.00	179.46	6325.00	185.88	130.15	-182.28	0.00	Cherry Canyon
	6400.00	0.00	179.46	6382.69	185.88	130.15	-182.28	0.00	
	6500.00 6600.00	0.00 0.00	179.46 179.46	6482.69 6582.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	6700.00	0.00	179.46	6682.69	185.88	130.15	-182.28	0.00	
	6800.00	0.00	179.46	6782.69	185.88	130.15	-182.28	0.00	
	6900.00	0.00	179.46	6882.69	185.88	130.15	-182.28	0.00	
	7000.00	0.00	179.46	6982.69	185.88	130.15	-182.28	0.00	
	7100.00	0.00	179.46	7082.69	185.88	130.15	-182.28	0.00	
	7200.00	0.00	179.46	7182.69	185.88	130.15	-182.28	0.00	
	7300.00 7400.00	0.00 0.00	179.46 179.46	7282.69 7382.69	185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	7400.00	0.00	179.46	7482.69	185.88 185.88	130.15	-182.28	0.00	
	7600.00	0.00	179.46	7582.69	185.88	130.15	-182.28	0.00	
	7700.00	0.00	179.46	7682.69	185.88	130.15	-182.28	0.00	
	7800.00	0.00	179.46	7782.69	185.88	130.15	-182.28	0.00	
	7900.00	0.00	179.46	7882.69	185.88	130.15	-182.28	0.00	
	7947.31	0.00	179.46	7930.00	185.88	130.15	-182.28	0.00	Brushy Canyon
	8000.00	0.00	179.46	7982.69	185.88	130.15	-182.28	0.00	
	8100.00 8200.00	0.00 0.00	179.46 179.46	8082.69 8182.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	8300.00	0.00	179.46	8282.69	185.88	130.15	-182.28	0.00	
	8400.00	0.00	179.46	8382.69	185.88	130.15	-182.28	0.00	
	8500.00	0.00	179.46	8482.69	185.88	130.15	-182.28	0.00	
	8600.00	0.00	179.46	8582.69	185.88	130.15	-182.28	0.00	
	8700.00	0.00	179.46	8682.69	185.88	130.15	-182.28	0.00	
	8800.00	0.00	179.46	8782.69	185.88	130.15	-182.28	0.00	
	8900.00 9000.00	0.00 0.00	179.46 179.46	8882.69 8982.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	9100.00	0.00	179.46	9082.69	185.88	130.15	-182.28	0.00	
	9187.31	0.00	179.46	9170.00	185.88	130.15	-182.28	0.00	1st Bone Spring Lime
	9200.00	0.00	179.46	9182.69	185.88	130.15	-182.28	0.00	
	9300.00	0.00	179.46	9282.69	185.88	130.15	-182.28	0.00	
	9400.00	0.00	179.46	9382.69	185.88	130.15	-182.28	0.00	
	9500.00	0.00	179.46	9482.69	185.88	130.15	-182.28	0.00	
	9600.00 9700.00	0.00 0.00	179.46 179.46	9582.69 9682.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	9800.00	0.00	179.46	9782.69	185.88	130.15	-182.28	0.00	
	9900.00	0.00	179.46	9882.69	185.88	130.15	-182.28	0.00	
	10000.00	0.00	179.46	9982.69	185.88	130.15	-182.28	0.00	
	10100.00	0.00	179.46	10082.69	185.88	130.15	-182.28	0.00	
	10200.00	0.00	179.46	10182.69	185.88	130.15	-182.28	0.00	
	10300.00 10400.00	0.00 0.00	179.46 179.46	10282.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	10440.00	0.00	179.46	10382.69 10430.00	185.88	130.15	-182.28	0.00	Bone Spring 1st
	10500.00	0.00	179.46	10482.69	185.88	130.15	-182.28	0.00	
	10600.00	0.00	179.46	10582.69	185.88	130.15	-182.28	0.00	
	10700.00	0.00	179.46	10682.69	185.88	130.15	-182.28	0.00	
	10800.00	0.00	179.46	10782.69	185.88	130.15	-182.28	0.00	
	10900.00	0.00	179.46	10882.69	185.88	130.15	-182.28	0.00	Pono Spring and
	10977.31 11000.00	0.00 0.00	179.46 179.46	10960.00 10982.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	Bone Spring 2nd
	111000.00	0.00	179.46	10982.69	185.88	130.15	-182.28	0.00	
	11200.00	0.00	179.46	11182.69	185.88	130.15	-182.28	0.00	
	11300.00	0.00	179.46	11282.69	185.88	130.15	-182.28	0.00	
	11400.00	0.00	179.46	11382.69	185.88	130.15	-182.28	0.00	
	11412.31	0.00	179.46	11395.00	185.88	130.15	-182.28	0.00	3rd Bone Spring Lime
	11500.00	0.00	179.46	11482.69	185.88	130.15	-182.28	0.00	
	11600.00 11700.00	0.00 0.00	179.46 179.46	11582.69 11682.69	185.88 185.88	130.15 130.15	-182.28 -182.28	0.00 0.00	
	11800.00	0.00	179.46	11782.69	185.88	130.15	-182.28	0.00	
	11900.00	0.00	179.46	11882.69	185.88	130.15	-182.28	0.00	
	12000.00	0.00	179.46	11982.69	185.88	130.15	-182.28	0.00	
	12077.31	0.00	179.46	12060.00	185.88	130.15	-182.28	0.00	Bone Spring 3rd
	12100.00	0.00	179.46	12082.69	185.88	130.15	-182.28	0.00	
	12200.00	0.00	179.46	12182.69	185.88	130.15	-182.28	0.00	
	12300.00	0.00	179.46	12282.69	185.88	130.15	-182.28	0.00	KOD
	12344.35 12397.38	0.00 5.30	179.46 179.46	12327.04 12380.00	185.88 183.43	130.15 130.18	-182.28 -179.82	0.00 10.00	KOP Wolfcamp / Point of Penetration
	12397.38	5.30 5.57	179.46 179.46	12380.00	183.18	130.18	-179.82	10.00	woncamp / rome or renetration

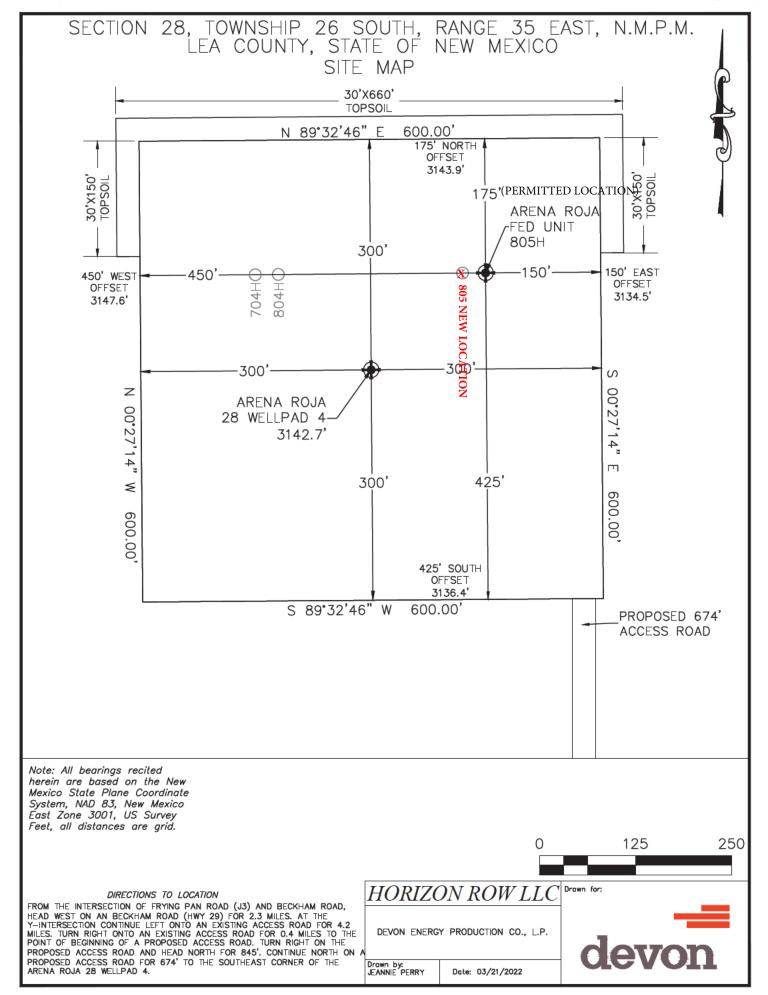
devon				Fed Unit 805	Н					US State Plane 1983
0.0 0 011		County:	Lea Permit Plar							North American Datum 1927 Clarke 1866
			Permit Plar							3001 - NM East (NAD83)
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment	
-	12500.00	15.57	179.46	12480.79	164.87	130.35	-161.27	10.00		
	12600.00	25.57	179.46	12574.29	129.79	130.68	-126.19	10.00		
	12700.00	35.57	179.46	12660.29	79.00	131.16	-75.41	10.00		
	12800.00 12900.00	45.57 55.57	179.46 179.46	12736.16 12799.60	14.06 -63.08	131.77 132.50	-10.47 66.65	10.00 10.00		
	13000.00	65.57	179.46	12848.68	-150.06	133.32	153.62	10.00		
	13100.00	75.57	179.46	12881.91	-244.23	134.21	247.79	10.00		
	13200.00	85.57	179.46	12898.28	-342.75	135.14	346.29	10.00		
	13244.35	90.00	179.46	12900.00	-387.05	135.55	390.59	10.00	Landing Point	
	13300.00 13400.00	90.00 90.00	179.46 179.46	12900.00 12900.00	-442.70 -542.70	136.08 137.02	446.23 546.22	0.00 0.00		
	13500.00	90.00	179.46	12900.00	-642.69	137.96	646.20	0.00		
	13600.00	90.00	179.46	12900.00	-742.69	138.91	746.19	0.00		
	13700.00	90.00	179.46	12900.00	-842.69	139.85	846.17	0.00		
	13800.00	90.00	179.46	12900.00 12900.00	-942.68	140.79	946.16	0.00		
	13900.00 14000.00	90.00 90.00	179.46 179.46	12900.00	-1042.68 -1142.67	141.73 142.68	1046.14 1146.12	0.00 0.00		
	14100.00	90.00	179.46	12900.00	-1242.67	143.62	1246.11	0.00		
	14200.00	90.00	179.46	12900.00	-1342.66	144.56	1346.09	0.00		
	14300.00	90.00	179.46	12900.00	-1442.66	145.51	1446.08	0.00		
	14400.00	90.00	179.46	12900.00 12900.00		146.45	1546.06	0.00		
	14500.00 14600.00	90.00 90.00	179.46 179.46	12900.00	-1642.65 -1742.65	147.39 148.33	1646.05 1746.03	0.00 0.00		
	14700.00	90.00	179.46	12900.00	-1842.64	149.28	1846.01	0.00		
	14800.00	90.00	179.46	12900.00	-1942.64	150.22	1946.00	0.00		
	14900.00	90.00	179.46	12900.00	-2042.63	151.16	2045.98	0.00		
	15000.00 15100.00	90.00 90.00	179.46 179.46	12900.00 12900.00	-2142.63 -2242.62	152.10 153.05	2145.97 2245.95	0.00 0.00		
	15200.00	90.00	179.46	12900.00	-2342.62	153.99	2345.94	0.00		
	15300.00	90.00	179.46	12900.00	-2442.61	154.93	2445.92	0.00		
	15400.00	90.00	179.46	12900.00	-2542.61	155.88	2545.90	0.00		
	15500.00	90.00	179.46	12900.00	-2642.61	156.82	2645.89	0.00		
	15600.00 15700.00	90.00 90.00	179.46 179.46	12900.00 12900.00	-2742.60 -2842.60	157.76 158.70	2745.87 2845.86	0.00 0.00		
	15800.00	90.00	179.46	12900.00	-2942.59	159.65	2945.84	0.00		
	15900.00	90.00	179.46	12900.00	-3042.59	160.59	3045.83	0.00		
	16000.00	90.00	179.46	12900.00	-3142.58	161.53	3145.81	0.00		
	16100.00 16200.00	90.00 90.00	179.46 179.46	12900.00 12900.00	-3242.58 -3342.57	162.47 163.42	3245.79 3345.78	0.00 0.00		
	16300.00	90.00	179.46	12900.00	-3442.57	164.36	3445.76	0.00		
	16400.00	90.00	179.46	12900.00	-3542.57	165.30	3545.75	0.00		
	16500.00	90.00	179.46	12900.00	-3642.56	166.25	3645.73	0.00		
	16600.00	90.00	179.46	12900.00	-3742.56	167.19	3745.72	0.00		
	16700.00 16800.00	90.00 90.00	179.46 179.46	12900.00 12900.00	-3842.55 -3942.55	168.13 169.07	3845.70 3945.68	0.00 0.00		
	16900.00	90.00	179.46	12900.00	-4042.54	170.02	4045.67	0.00		
	17000.00	90.00	179.46	12900.00	-4142.54	170.96	4145.65	0.00		
	17100.00	90.00	179.46	12900.00	-4242.53	171.90	4245.64	0.00		
	17200.00 17300.00	90.00 90.00	179.46 179.46	12900.00 12900.01	-4342.53 -4442.53	172.84 173.79	4345.62 4445.61	0.00 0.00		
	17400.00	90.00	179.46	12900.01	-4542.55	174.73	4545.59	0.00		
	17500.00	90.00	179.46	12900.01	-4642.52	175.67	4645.57	0.00		
	17600.00	90.00	179.46	12900.01	-4742.51	176.62	4745.56	0.00		
	17700.00 17800.00	90.00 90.00	179.46 179.46	12900.01 12900.01	-4842.51 -4942.50	177.56 178.50	4845.54 4945.53	0.00 0.00		
	17900.00	90.00	179.46 179.46	12900.01	-5042.50	178.50	4945.55 5045.51	0.00		
	18000.00	90.00	179.46	12900.01	-5142.49	180.39	5145.50	0.00		
	18100.00	90.00	179.46	12900.01	-5242.49	181.33	5245.48	0.00		
	18200.00	90.00	179.46	12900.01	-5342.49	182.27	5345.46	0.00		
	18300.00 18400.00	90.00 90.00	179.46 179.46	12900.01 12900.01	-5442.48 -5542.48	183.21 184.16	5445.45 5545.43	0.00 0.00		
	18500.00	90.00	179.46	12900.01	-5642.47	185.10	5645.42	0.00		
	18600.00	90.00	179.46	12900.01	-5742.47	186.04	5745.40	0.00		
	18700.00	90.00	179.46	12900.01	-5842.46	186.99	5845.39	0.00		
	18800.00 18900.00	90.00 90.00	179.46 179.46	12900.01 12900.01	-5942.46 -6042.45	187.93 188.87	5945.37 6045.35	0.00 0.00		
	19000.00	90.00 90.00	179.46	12900.01	-6042.45	189.81	6145.35 6145.34	0.00		
	19100.00	90.00	179.46	12900.01	-6242.45	190.76	6245.32	0.00		
	19200.00	90.00	179.46	12900.01	-6342.44	191.70	6345.31	0.00		
	19300.00	90.00	179.46	12900.01	-6442.44	192.64	6445.29	0.00		

devon	•	County: Wellbore:	,		iΗ			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	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
	19400.00	90.00	179.46	12900.01	-6542.43	193.58	6545.28	0.00	
	19500.00	90.00	179.46	12900.01	-6642.43	194.53	6645.26	0.00	
	19600.00	90.00	179.46	12900.01	-6742.42	195.47	6745.24	0.00	
	19700.00	90.00	179.46	12900.01	-6842.42	196.41	6845.23	0.00	
	19800.00	90.00	179.46	12900.01	-6942.41	197.36	6945.21	0.00	
	19900.00	90.00	179.46	12900.01	-7042.41	198.30	7045.20	0.00	
	20000.00	90.00	179.46	12900.01	-7142.41	199.24	7145.18	0.00	
	20100.00	90.00	179.46	12900.01	-7242.40	200.18	7245.17	0.00	
	20200.00	90.00	179.46	12900.01	-7342.40	201.13	7345.15	0.00	
	20214.61	90.00	179.46	12900.01	-7357.00	201.26	7359.76	0.00	exit
1	20294.61	90.00	179.46	12900.00	-7437.00	202.00	7439.74	0.00	BHL

	Well: County: Wellbore:	Lea	Fed Unit 805l	Н				Datum:	US State Plane 1983 North American Datum 1927 Clarke 1866
		Permit Plan							3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment	

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Received by OCD: 1/27/2023 1:03:05 PM

Page 17 of 28 28-26-35-B Sundry ID 2706230 Arena Roja Fed Unit 803H Lea NM097910 DEVON ENERGY PRODUCTION COMPANY LP 13-22d 8-30-2022 LV.xlsm

Arena Roja Fed Unit 803H

10 3/4	su	rface csg in a	13 1/2	inch hole.		Design	Factors			Surface	e	
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	0.34	1,115	5	0.57	5.04	45,158
"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
omparison o	f Proposed to M	Inimum Required Cem	ent Volumes									
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	3986	5M				1.38
urst Frac Grad	dient(s) for Segn	nent(s) A, B = , b All > 0	0.70, ОК.									
8 5/8			10.2/4			Dooign	Eastara		-	Int 1		
	#/ft	ing inside the Grade	10 3/4	Counting	Joint	Design Collongo	Burst	Longth	D@a	a-B	a-C	Woigh
Segment "A"	32.00	Grade	m 110	Coupling vam sprint fj	1.90	Collapse 0.6	1.02	Length	B@s		a-C 1.00	Weigh 391,968
"B"	32.00		p 110	vani sprint ij	1.90	0.0	1.02	12,249	1	1.70	1.00	,
B	(0.4)		240				m , 1	0				0
	w/8.4#	/g mud, 30min Sfc Csg Test		ded to estimute a ten of	0	ft from su	Totals:	12,249				391,968
Hole	Annular			ded to achieve a top of	0			1115				overlap.
	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling Mud W/	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp 0.61
9 7/8	0.1261	894	2005	1566	28	10.50	4198	5M				
V Tool(s):			7930				sum of sx	<u>Σ CuFt</u>				Σ%exces
by stage % :		268	21				1749	3236				107
Class 'H' tail cn	nt yld > 1.20							0200				
Tail cmt		ing inside the	85/8			Design Fa			-	Prod 1		
Tail cmt 5 1/2	cas	ing inside the Grade	8 5/8	Coupling	Body	Design Fa	<u>ctors</u>		- B@s	Prod 1	-	
Tail cmt 5 1/2 Segment	cas #/ft	ing inside the Grade		Coupling	Body 2 49	Collapse	<u>ctors</u> Burst	Length	B@s	a-B	a-C	Weigh
Tail cmt 5 1/2 Segment "A"	cas	•	8 5/8 p 110	Coupling btc	Body 2.49		<u>ctors</u>	Length 20,314	B@s 2		-	Weigh 345,33
Tail cmt 5 1/2 Segment	cas: #/ft 17.00	Grade	p 110			Collapse	<u>ctors</u> Burst 1.51	Length 20,314 0	<u> </u>	a-B	a-C	Weigh 345,33 0
Tail cmt 5 1/2 Segment "A"	cas: #/ft 17.00	Grade	p 110 psig: 2,838	btc	2.49	Collapse 1.06	ctors Burst 1.51 Totals:	Length 20,314 0 20,314	<u> </u>	a-B	a-C	Weigh 345,33 0 345,33
Tail cmt 5 1/2 Segment "A" "B"	cas: #/ft 17.00 w/8.4#	Grade t/g mud, 30min Sfc Csg Test The cement	p 110 _{psig:} 2,838 volume(s) are inten	btc ded to achieve a top of	2.49 12049	Collapse 1.06	ctors Burst 1.51 Totals: Irface or a	Length 20,314 0 20,314 20,314 200	<u> </u>	a-B	a-C	Weigh 345,33 0 345,33 overlap.
Tail cmt 5 1/2 Segment "A" "B" Hole	cas #/ft 17.00 w/8.4# Annular	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage	p 110 _{psig:} 2,838 volume(s) are inten 1 Stage	btc ded to achieve a top ol Min	2.49 12049 1 Stage	Collapse 1.06 ft from su Drilling	ctors Burst 1.51 Totals: Inface or a Calc	Length 20,314 0 20,314 200 Req'd	<u> </u>	a-B	a-C	345,33 0 345,33 overlap. Min Dis
Tail cmt 5 1/2 Segment "A" "B" Hole Size	cas #/ft 17.00 w/8.4 Annular Volume	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt	btc ded to achieve a top of Min Cu Ft	2.49 12049 1 Stage % Excess	Collapse 1.06 ft from su Drilling Mud Wt	ctors Burst 1.51 Totals: Irface or a	Length 20,314 0 20,314 20,314 200	<u> </u>	a-B	a-C	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cpl
5 1/2 Segment "A" "B" Hole	cas: #/ft 17.00 w/8.4t Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage	p 110 _{psig:} 2,838 volume(s) are inten 1 Stage	btc ded to achieve a top ol Min	2.49 12049 1 Stage	Collapse 1.06 ft from su Drilling	ctors Burst 1.51 Totals: Inface or a Calc	Length 20,314 0 20,314 200 Req'd	<u> </u>	a-B	a-C	Weight 345,338 0 345,338
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm	cas: #/ft 17.00 w/8.44 Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt	btc ded to achieve a top of Min Cu Ft	2.49 12049 1 Stage % Excess	Collapse 1.06 ft from su Drilling Mud Wt	ctors Burst 1.51 Totals: Inface or a Calc	Length 20,314 0 20,314 200 Req'd	<u> </u>	a-B	a-C	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cpl
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8	cas: #/ft 17.00 w/8.44 Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900	btc ded to achieve a top of Min Cu Ft	2.49 12049 1 Stage % Excess	Collapse 1.06 ft from su Drilling Mud Wt 10.50	ctors Burst 1.51 Totals: Inface or a Calc MASP	Length 20,314 0 20,314 200 Req'd	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cpl
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 ilass 'C' tail cm #N/A 0	cas: #/ft 17.00 w/8.44 Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt	ded to achieve a top of Min Cu Ft 1433	2.49 12049 1 Stage % Excess	Collapse 1.06 ft from su Drilling Mud Wt 10.50 Design	ctors Burst 1.51 Totals: Inface or a Calc MASP Factors	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 Iass 'C' tail cm #N/A 0 Segment	cas: #/ft 17.00 w/8.4 Annular Volume 0.1733 at yld > 1.35	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1171	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900	ded to achieve a top of Min Cu Ft 1433	2.49 12049 1 Stage % Excess 33	Collapse 1.06 ft from su Drilling Mud Wt 10.50	ctors Burst 1.51 Totals: Inface or a Calc MASP	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91 Weigh
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment "A"	cas: #/ft 17.00 w/8.4 Annular Volume 0.1733 at yld > 1.35	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1171	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900	ded to achieve a top of Min Cu Ft 1433 Coupling 0.00	2.49 12049 1 Stage % Excess 33	Collapse 1.06 ft from su Drilling Mud Wt 10.50 Design	ctors Burst 1.51 Totals: Inface or a Calc MASP Factors	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91 Weigh 0
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 lass 'C' tail cm #N/A 0 Segment	cas #/ft 17.00 w/8.4t Annular Volume 0.1733 nt yld > 1.35 #/ft	Grade //g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1171 Grade	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900 5 1/2	ded to achieve a top of Min Cu Ft 1433	2.49 12049 1 Stage % Excess 33	Collapse 1.06 ft from su Drilling Mud Wt 10.50 Design	ctors Burst 1.51 Totals: urface or a Calc MASP Factors Burst	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 (lass 'C' tail cm #N/A 0 Segment "A"	cas #/ft 17.00 w/8.4t Annular Volume 0.1733 nt yld > 1.35 #/ft	Grade //g mud, 30min Sfc Csg Test The cement 1 1 Stage Cmt Sx 1171 Grade //g mud, 30min Sfc Csg Test	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900 5 1/2	ded to achieve a top of Min Cu Ft 1433 Coupling 0.00 0.00	2.49 12049 1 Stage % Excess 33 #N/A	Collapse 1.06 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse	ctors Burst 1.51 Totals: urface or a Calc MASP Factors Burst	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0
Tail cmt 51/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B"	cas: #/ft 17.00 w/8.4 Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4	Grade //g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx 1171 Grade //g mud, 30min Sfc Csg Test Cmt vol c	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900 5 1/2 psig: alc below includes	ded to achieve a top of Min Cu Ft 1433 Coupling 0.00 0.00 this csg, TOC intended	2.49 12049 1 Stage % Excess 33 #N/A	Collapse 1.06 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su	ctors Burst 1.51 Totals: Inface or a Calc MASP Factors Burst	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 0 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 overlap.
Tail cmt 51/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B" Hole	cas: #/ft 17.00 w/8.4 Annular Volume 0.1733 tt yld > 1.35 #/ft w/8.44 Annular	Grade //g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx 1171 Grade //g mud, 30min Sfc Csg Test Cmt vol c 1 Stage	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900 5 1/2 psig: alc below includes 1 Stage	ded to achieve a top of Min Cu Ft 1433 Coupling 0.00 0.00 this csg, TOC intended Min	2.49 12049 1 Stage % Excess 33 #N/A 1 Stage	Collapse 1.06 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	ctors Burst 1.51 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	Length 20,314 0 20,314 200 Req'd BOPE Length 0 0 0 #N/A Req'd	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 overlap. Min Dis
Tail cmt 51/2 Segment "A" "B" Hole Size 7 7/8 Iass 'C' tail cm #N/A 0 Segment "A" "B" Hole Size	cas: #/ft 17.00 w/8.4 Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4	Grade //g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx 1171 Grade //g mud, 30min Sfc Csg Test Cmt vol c 1 Stage Cmt Sx	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900 5 1/2 psig: alc below includes 1 Stage CuFt Cmt	ded to achieve a top of Min Cu Ft 1433 Coupling 0.00 0.00 this csg, TOC intended Min Cu Ft	2.49 12049 1 Stage % Excess 33 #N/A 1 Stage % Excess	Collapse 1.06 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su	ctors Burst 1.51 Totals: Inface or a Calc MASP Factors Burst	Length 20,314 0 20,314 200 Req'd BOPE	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 0 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 overlap.
Tail cmt 5 1/2 Segment "A" "B" Hole Size 7 7/8 Jass 'C' tail cm #N/A 0 Segment "A" "B" Hole	cas: #/ft 17.00 w/8.4 Annular Volume 0.1733 tt yld > 1.35 #/ft w/8.44 Annular	Grade //g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx 1171 Grade //g mud, 30min Sfc Csg Test Cmt vol c 1 Stage	p 110 psig: 2,838 volume(s) are inten 1 Stage CuFt Cmt 1900 5 1/2 psig: alc below includes 1 Stage	ded to achieve a top of Min Cu Ft 1433 Coupling 0.00 0.00 this csg, TOC intended Min Cu Ft 0	2.49 12049 1 Stage % Excess 33 #N/A 1 Stage	Collapse 1.06 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	ctors Burst 1.51 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	Length 20,314 0 20,314 200 Req'd BOPE Length 0 0 0 #N/A Req'd	2	a-B 2.53	a-C 1.78	Weigh 345,33 0 345,33 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 overlap. Min Dis

.

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:	10400084784
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:	10400084797
Sundry ID:	2706231
	
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:	10400084793
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: APD ID:	1040004927
	10400084827
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	Contingency	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)

<u>Unit Wells</u>

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	180379			
	Action Type:			
	[C-103] NOI Change of Plans (C-103A)			

CONDITIONS

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

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Action 180379