Re	Cerved by OCD: 0/13/2023 2:24:12 PM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 06/13/2023
$\left(\right)$	Well Name: SPUD MUFFIN 31-30 FED COM	Well Location: T23S / R29E / SEC 31 / SESW /	County or Parish/State:
	Well Number: 231H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM082886	Unit or CA Name:	Unit or CA Number:
	US Well Number: 3001553172	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2730321

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/11/2023

Date proposed operation will begin: 05/11/2023

Type of Action: APD Change Time Sundry Submitted: 08:58

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to move the SHL/BHL on the subject well. Please see attached revised C102, drill plan, and directional plan. Permitted SHL: SESW 195 FSL, 1353 FWL, 31-23S-29E Proposed SHL: SESW 165 FSL, 1383 FWL, 31-23S-29E Proposed BHL: LOT 1, 20 FNL, 900 FWL, 30-23S-29E No new leases have been added since approved APD.

NOI Attachments

Procedure Description

SPUD_MUFFIN_31_30_FED_COM_231H_20230511085553.pdf

break_test_variance_BOP_20230511085553.pdf

WA018190760_SPUD_MUFFIN_31_30_FED_COM_231H_WL_R1_20230511085553.pdf

SPUD_MUFFIN_31_30_FED_COM_231H_Directional_Plan_05_03_23_20230511085553.pdf

Received by OCD: 6/13/2023 2:24:12 PM Well Name: SPUD MUFFIN 31-30 FED COM	Well Location: T23S / R29E / SEC 31 / SESW /	County or Parish/State: Page 2 of 2
Well Number: 231H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM082886	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553172	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Additional

31_23_29_N_ATS_21_350_Spud_Muffin_31_30_Fed_Com_231H_Eddy__20230523125847.pdf

Break_Test_COA_Variance_20230523125839.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: SHAYDA OMOUMI

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Associate 3

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 235-3611

Email address: SHAYDA.OMOUMI@DVN.COM

Field

Representative Name: Street Address: City: Phone:

Email address:

State:

BLM Point of Contact

BLM POC Name: Bobby Ballard BLM POC Phone: 5752342235 Disposition: Approved Signature: Cody R. Layton Signed on: MAY 11, 2023 08:56 AM

BLM POC Title: Natural Resource Specialist BLM POC Email Address: bballard@blm.gov Disposition Date: 06/13/2023

Zip:

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

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

AMENDED REPORT

Page 3 of 22

			WELL L	OCATIO	ON AND AC	REAGE DEDIC	CATION PLA	ΔT			
¹ A	PI Number	r		² Pool Co	de ³ Pool Name						
30-	015-53	172		1152	20	CEDAR	CANYON; E	SONE SP	PRING	r	
⁴ Property C	ode				⁵ Propert	y Name			⁶ Well Number		
32292	0			SP	UD MUFFIN 3	1-30 FED COM				231H	
⁷ OGRID N	lo.				⁸ Operato	r Name				⁹ Elevation	
6137			DE	VON ENI	CRGY PRODUCTION COMPANY, L.P.				2959.3		
¹⁰ Surface Location											
UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County	
Ν	31	23 S	29 E		165	SOUTH	1383	WES	ST	EDDY	
			. 11	Bottom	Hole Location	n If Different Fr	om Surface				
UL or lot no.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County	
1	30	23 S	29 E		20	NORTH	990	WES	ST	EDDY	
¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.											
312.38					Surface and bottomhole location changed 7/12/23.						
	1										

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

	SPUD MUFFIN 31-30 FED COM 231H	17 OPERATOR CERTIFICATION
(R)	EL. = 2959.3	I hereby certify that the information contained herein is true and complete
990, 990, 990, 990, 990, 990, 990, 990,	GEODETIC COORDINATES NAD 83 NMSP EAST	to the best of my knowledge and belief, and that this organization either
	SURFACE LOCATION N.= 456541.12	owns a working interest or unleased mineral interest in the land including
4. LTP	E.= 635763.40 LAT. = 32.2547376'N	the proposed bottom hole location or has a right to drill this well at this
	LONG. = 104.0278750'W	location pursuant to a contract with an owner of such a mineral or working
17'12	KICK OFF POINT FIRST TAKE POINT (PPP 1)	interest, or to a voluntary pooling agreement or a compulsory pooling order
0.10	CALLS, 100' FSL, 990' FWL N.= N.= 456478.89	heretofore entered by the division.
©	E.= E.= 635370.42 LAT. = LAT. = 32.2545696*N	Shanda Omount 5/9/2023
L: III III III III III III III III III I	LONG. = LONG. = 104.0291468'W	Signature Date
0.01 38 F	LAST TAKE POINT BOTTOM OF HOLE	Shavda Omoumi
99 7 13	100' FNL, 990' FWL 20' FNL, 990' FWL N.= 466910.05 N.= 466990.08	Printed Name
	$E_{-} = 635372.50$ $E_{-} = 635372.33$	
0.02	LONG. = 104.0290444'W LONG. = 104.0290442'W	shayda.omoumi@dvn.com
2	PPP 2	E-mail Address
	N.= 457695.71	
	E.= 635370.66 LAT. = 32.2579144*N	¹⁸ SURVEYOR CERTIFICATION
27: .3	LONG. = 104.0291349'W	I hereby certify that the well location shown on this plat
		was plotted from field notes of actual surveys made by
06:06		me or under my supervision, and that the same is true
		and correct to the best of my belief.
\mathbb{E} \mathbb{E}	CORNER COORDINATES TABLE NAD 83 NMSP EAST	APRIL 11, 2023
	A - N.= 466963.00 E.= 636940.42 B - N.= 467039.80 E.= 634382.44	Date of Survey
0. 20 ← PPP 2	C - N.= 464365.66 E.= 634388.03 D - N.= 461705.34 E.= 634385.85	A REAL AND A
	E - N.= 459021.23 $E.= 634380.54F - N.= 456385.89$ $E.= 634380.54$	
	H = N = 458567.27 E = 636967.53 H = N = 458998.36 E = 636967.53	
	J - N.= 464302.93 E.= 636926.75	Signature and Seal of Processional Surveyor:
С — 13831 — ЕТР	<u>LEGEND</u> — · · — · · — SECTION LINE	Certificate Number: AVAMONE LAR AMULTO IS 12797
N89'35'46"W 2641.67 FT C N89'35'48"W 2649.74 FT	QUARTER LINE 	POLSTS & 20 8474A
	WELL PATH	

Received by OCD: 6/13/2023 2:24:12 PM

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I	r	1	τ	e	ľ	l	τ

Δs	Drilled	
AS	Dimeu	

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	SPUD MUFFIN 31-30 FED COM	231H

Kick Off Point (KOP)

UL	Section 31	Township 23S	Range 29E	Lot 4	Feet 50	From N/S SOUTH	Feet 990	From E/W WEST	County EDDY
Latitude			Longitude		NAD				
32.25433727				-104.0292289	7				

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	23S	29E	4	100	SOUTH	990	WEST	EDDY
Latitu 32.2	^{de} 54569	6			Longitude 104.029 1	1468			NAD 83

Last Take Point (LTP)

UL	Section 30	Township 23S	Range 29E	Lot 1	Feet 100	From N/S NORTH	Feet 990	From E/W WEST	County EDDY
Latitu 32.2	^{de} 83243	2			Longitud 104.0	^{le} 290444			NAD 83

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

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 #
30-015-45459

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	SPUD MUFFIN 31 30 FED COM	331H

KZ 06/29/2018

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:

1. Primary barrier remains fluid

2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- a) Annular first
- b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
- c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



	County: Wellbore: Design:	Eddy Permit Plan Permit Plan	#1		I			Geod	Datum: No Ellipsoid: Cla Zone: 300	rth American Datum 1 rke 1866 01 - NM East (NAD83)	927	
	MD	INC	AZI	TVD	NS	EW	vs	DLS	<u>.</u>			
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL			
	2000.00	0.00	254.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent			
	2500.00	10.00	254.00	2497.47	-12.00	-41.84	-10.42	2.00	Hold Tangent			
	4353.01	10.00	254.00	4322.32	-100.69	-351.14	-87.42	0.00	Drop to Vertica	1		
	4853.01	0.00	254.00	4819.79	-112.69	-392.98	-97.84	2.00	Hold Vertical			
	7904.26	0.00	0.00	7871.04	-112.69	-392.98	-97.84	0.00	KOP			
	18792.96	89.93	0.00	8444.00	10448.96	-392.98	10456.35	0.00	BHL			
0												
											SECTION 30	1
4000												
1000												
2000												
3000												
Ê											SECTION 31	
j l										·		
4000 4												
											-+	1
5000												
5 5000												-
2												
6000											i i	1
7000												
8000												
8000												
9000												
-2000	0		2000		4000 Ve	rtical Section	60 on (ft)	000	80	00	10000	
Key Depths		(ft)	(ft)									
Rustler		114.00	114.00	-								
Top of Salt		469.00	469.00				MD	TVD	Lat	Long	Section Footages	
Base of Salt		2547.25	2544.00				(ft)	(ft)	(°)	(°)	-	
Lamar		2790.95	2784.00		SHL		0.00	0.00	32.2546 -1	04.0280 165' FSL, 13	83' FWL of Sec 31 in T23	3, R2
Bell Canyon		2790.95	2784.00		КОР		7904.26	7871.04	32.2543 -1	04.0292 49' FSL, 991	FWL of Sec 31 in T23S, F	₹29E
Cherry Canyon		3694.68	3674.00		Point of Pe	enetration	8344.19	8269.00	32.2546 -1	04.0291 100' FSL, 99	D' FWL of Sec 31 in T23S,	R29
Ist Bone Spring Lime		5257.22 6517.22	5224.00				18702 06	8456.91 8457.00	32.2032 -1	04.0290 100" FNL, 99	U FWL OF Sec 30 In 1235	, K29
1st Bone Spring Liffle		7502.22	7469.00		DITE		101 J2.30	0-10.00	JZ.2034 -1	07.0231 20 FINE, 990	1 WE OF SEC SU III 1235,	11231
Bone Spring 2nd / Poi	nt of Penetrati	8344.19	8269.00									
Exit		18712.96	8456.91									

.

devon		Well: County: Wellbore:	SPUD MUF Eddy Permit Plan	FIN 31-30 FEI	D COM 231H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866
		Design:	Permit Plan	#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)	(ft)	(°/100ft) 0.00	SHI
	100.00	0.00	254.00	100.00	0.00	0.00	0.00	0.00	5.12
	114.00	0.00	254.00	114.00	0.00	0.00	0.00	0.00	Rustler
	200.00	0.00	254.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	254.00	300.00	0.00	0.00	0.00	0.00	
	469.00	0.00	254.00	469.00	0.00	0.00	0.00	0.00	Top of Salt
	500.00	0.00	254.00	500.00	0.00	0.00	0.00	0.00	
	600.00	0.00	254.00	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	254.00	700.00	0.00	0.00	0.00	0.00	
	900.00	0.00	254.00	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	254.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	254.00	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00	254.00	1200.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	254.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	254.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	254.00	1600.00	0.00	0.00	0.00	0.00	
	1700.00	0.00	254.00	1700.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	254.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	254.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	254.00	2099.98	-0.48	-1.68	-0.42	2.00	
	2200.00	4.00	254.00	2199.84	-1.92	-6.71	-1.67	2.00	
	2300.00	8.00	254.00	2299.45	-4.55	-26.80	-5.76	2.00	
	2500.00	10.00	254.00	2497.47	-12.00	-41.84	-10.42	2.00	Hold Tangent
	2547.25	10.00	254.00	2544.00	-14.26	-49.72	-12.38	0.00	Base of Salt
	2600.00	10.00	254.00	2595.95	-16.78	-58.53	-14.57 -18.73	0.00	
	2790.95	10.00	254.00	2784.00	-25.92	-90.40	-22.51	0.00	Lamar, Bell Canyon
	2800.00	10.00	254.00	2792.91	-26.36	-91.91	-22.88	0.00	
	2900.00	10.00	254.00	2891.39	-31.14	-108.61	-27.04	0.00	
	3000.00	10.00	254.00 254.00	2989.87	-35.93 -40.72	-125.30 -141.99	-31.19	0.00	
	3200.00	10.00	254.00	3186.83	-45.50	-158.68	-39.51	0.00	
	3300.00	10.00	254.00	3285.31	-50.29	-175.37	-43.66	0.00	
	3400.00	10.00	254.00	3383.79	-55.07	-192.07	-47.82	0.00	
	3500.00	10.00	254.00 254.00	3482.27 3580.75	-59.86	-208.76	-51.97	0.00	
	3694.68	10.00	254.00	3674.00	-69.18	-241.25	-60.06	0.00	Cherry Canyon
	3700.00	10.00	254.00	3679.23	-69.43	-242.14	-60.28	0.00	
	3800.00	10.00	254.00	3777.72	-74.22	-258.83	-64.44	0.00	
	4000.00	10.00	254.00	3974.68	-79.01	-275.53	-08.60	0.00	
	4100.00	10.00	254.00	4073.16	-88.58	-308.91	-76.91	0.00	
	4200.00	10.00	254.00	4171.64	-93.37	-325.60	-81.06	0.00	
	4300.00	10.00	254.00	4270.12	-98.15	-342.29	-85.22	0.00	Drop to Vortical
	4333.01	9.06	254.00	4368.66	-102.83	-358.62	-89.28	2.00	
	4500.00	7.06	254.00	4467.67	-106.70	-372.10	-92.64	2.00	
	4600.00	5.06	254.00	4567.11	-109.61	-382.25	-95.16	2.00	
	4700.00	3.06	254.00	4666.85	-111.56	-389.05	-96.86 -97.72	2.00	
	4853.01	0.00	254.00	4819.79	-112.69	-392.98	-97.84	2.00	Hold Vertical
	4900.00	0.00	0.00	4866.78	-112.69	-392.98	-97.84	0.00	
	5000.00	0.00	0.00	4966.78	-112.69	-392.98	-97.84	0.00	
	5100.00	0.00	0.00	5066.78 5166.78	-112.69	-392.98 -392.98	-97.84 -97.84	0.00	
	5257.22	0.00	0.00	5224.00	-112.69	-392.98	-97.84	0.00	Brushy Canyon
	5300.00	0.00	0.00	5266.78	-112.69	-392.98	-97.84	0.00	
	5400.00	0.00	0.00	5366.78	-112.69	-392.98	-97.84	0.00	
	5500.00 5600.00	0.00	0.00	5466.78 5566.78	-112.69 -112.69	-392.98 -392.98	-97.84 -97.84	0.00	
	5700.00	0.00	0.00	5666.78	-112.69	-392.98	-97.84	0.00	
	5800.00	0.00	0.00	5766.78	-112.69	-392.98	-97.84	0.00	
	5900.00	0.00	0.00	5866.78	-112.69	-392.98	-97.84	0.00	
	6100.00	0.00	0.00	5966.78 6066.78	-112.69	-392.98 -392.98	-97.84 -97.84	0.00	
		2.00	2.50		2.00			2.00	

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devon		Well: County: Wellbore: Design:	SPUD MUF Eddy Permit Plar Permit Plar	FIN 31-30 FEI 1 1 #1	D COM 231H				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)	
	6200.00	0.00	0.00	6166.78	-112.69	-392.98	-97.84	0.00	
	6300.00	0.00	0.00	6266.78	-112.69	-392.98	-97.84	0.00	
	6500.00	0.00	0.00	6466.78	-112.69	-392.98	-97.84	0.00	
	6517.22	0.00	0.00	6484.00	-112.69	-392.98	-97.84	0.00	1st Bone Spring Lime
	6600.00	0.00	0.00	6566.78	-112.69	-392.98	-97.84	0.00	
	6700.00	0.00	0.00	6666.78	-112.69	-392.98	-97.84	0.00	
	6800.00	0.00	0.00	6766.78	-112.69	-392.98	-97.84	0.00	
	6900.00 7000.00	0.00	0.00	6866.78	-112.69	-392.98	-97.84	0.00	
	7100.00	0.00	0.00	7066.78	-112.69	-392.98	-97.84	0.00	
	7200.00	0.00	0.00	7166.78	-112.69	-392.98	-97.84	0.00	
	7300.00	0.00	0.00	7266.78	-112.69	-392.98	-97.84	0.00	
	7400.00	0.00	0.00	7366.78	-112.69	-392.98	-97.84	0.00	
	7500.00	0.00	0.00	7466.78	-112.69	-392.98	-97.84	0.00	1et David Consider Consid
	7502.22	0.00	0.00	7469.00	-112.09	-392.98	-97.84	0.00	ist bone spring sand
	7700.00	0.00	0.00	7666.78	-112.69	-392.98	-97.84	0.00	
	7800.00	0.00	0.00	7766.78	-112.69	-392.98	-97.84	0.00	
	7900.00	0.00	0.00	7866.78	-112.69	-392.98	-97.84	0.00	
	7904.26	0.00	0.00	7871.04	-112.69	-392.98	-97.84	0.00	KOP
	8000.00	9.57	0.00	7966.33 8062.00	-104./1	-392.98	-89.86	10.00	
	8200.00	29.57	0.00	8153.82	-79.57	-392.96	-04.75	10.00	
	8300.00	39.57	0.00	8236.06	18.63	-392.98	33.39	10.00	
	8344.19	43.99	0.00	8269.00	48.07	-392.98	62.81	10.00	Bone Spring 2nd / Point of Penetration
	8400.00	49.57	0.00	8307.20	88.73	-392.98	103.43	10.00	
	8500.00	59.57	0.00	8365.09	170.11	-392.98	184.76	10.00	
	8700.00	09.57 79.57	0.00	8407.97 8434 54	260.31	-392.98	274.89	10.00	
	8800.00	89.57	0.00	8443.99	456.01	-392.98	470.46	10.00	
	8803.52	89.93	0.00	8444.00	459.53	-392.98	473.97	10.00	Landing Point
	8900.00	89.93	0.00	8444.13	556.01	-392.98	570.39	0.00	
	9000.00	89.93	0.00	8444.26	656.01	-392.98	670.32	0.00	
	9100.00	89.93	0.00	8444.39	756.01 856.01	-392.98	770.25	0.00	
	9300.00	89.93	0.00	8444.65	956.01	-392.98	970.10	0.00	
	9400.00	89.93	0.00	8444.78	1056.01	-392.98	1070.03	0.00	
	9500.00	89.93	0.00	8444.91	1156.01	-392.98	1169.96	0.00	
	9600.00	89.93	0.00	8445.04	1256.01	-392.98	1269.89	0.00	
	9700.00	89.93	0.00	8445.17	1356.01	-392.98	1369.82	0.00	
	9800.00	89.93	0.00	8445.30 8445.43	1456.01	-392.98	1469.75	0.00	
	10000.00	89.93	0.00	8445.56	1656.01	-392.98	1669.61	0.00	
	10100.00	89.93	0.00	8445.69	1756.01	-392.98	1769.54	0.00	
	10200.00	89.93	0.00	8445.82	1856.01	-392.98	1869.47	0.00	
	10300.00	89.93	0.00	8445.95	1956.01	-392.98	1969.40	0.00	
	10400.00	89.93	0.00	8446.08 8446.21	2056.01	-392.98	2069.33	0.00	
	10600.00	89.93	0.00	8446.34	2256.01	-392.98	2269.18	0.00	
	10700.00	89.93	0.00	8446.47	2356.01	-392.98	2369.11	0.00	
	10800.00	89.93	0.00	8446.60	2456.01	-392.98	2469.04	0.00	
	10900.00	89.93	0.00	8446.73	2556.01	-392.98	2568.97	0.00	
	111000.00	89.93	0.00	8446.86 8446.99	2656.01	-392.98	2008.90	0.00	
	11200.00	89.93	0.00	8447.12	2856.01	-392.98	2868.76	0.00	
	11300.00	89.93	0.00	8447.25	2956.01	-392.98	2968.69	0.00	
	11400.00	89.93	0.00	8447.38	3056.01	-392.98	3068.62	0.00	
	11500.00	89.93	0.00	8447.51	3156.01	-392.98	3168.55	0.00	
	11600.00	89.93	0.00	8447.64	3256.01	-392.98	3268.48	0.00	
	11800.00	89.93	0.00	8447.90	3456.01	-392.98 -392.98	3468.34	0.00	
	11900.00	89.93	0.00	8448.03	3556.01	-392.98	3568.26	0.00	
	12000.00	89.93	0.00	8448.16	3656.01	-392.98	3668.19	0.00	
	12100.00	89.93	0.00	8448.29	3756.01	-392.98	3768.12	0.00	
	12200.00	89.93	0.00	8448.42	3856.01	-392.98	3868.05	0.00	
	12300.00	89.93 89.93	0.00	0440.55 8448 FO	3956.01 4056.01	-392.98 _392.98	3967.98 4067 91	0.00	
	12500.00	89.93	0.00	8448.82	4156.01	-392.98	4167.84	0.00	
	12600.00	89.93	0.00	8448.95	4256.01	-392.98	4267.77	0.00	

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devon		Well: County: Wellbore: Design:	SPUD MUF Eddy Permit Plar Permit Plar	FIN 31-30 FE	D COM 231H				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)	Comment
	12700.00	89.93	0.00	8449.08	4356.01	-392.98	4367.70	0.00	
	12800.00	89.93	0.00	8449.21	4456.01	-392.98	4467.63	0.00	
	12900.00	89.93	0.00	8449.34	4656.01	-392.90	4507.50	0.00	
	13100.00	89.93	0.00	8449.60	4756.01	-392.98	4767.42	0.00	
	13200.00	89.93	0.00	8449.73	4856.01	-392.98	4867.34	0.00	
	13300.00	89.93	0.00	8449.86	4956.01	-392.98	4967.27	0.00	
	13400.00	89.93	0.00	8449.99	5056.01	-392.98	5067.20	0.00	
	13500.00	89.93	0.00	8450.12	5156.01	-392.98	5167.13	0.00	
	13600.00	89.93	0.00	8450.25	5256.01	-392.98	5267.06	0.00	
	13700.00	89.93	0.00	8450.56 8450.51	5456.01	-392.90	5466 92	0.00	
	13900.00	89.93	0.00	8450.64	5556.01	-392.98	5566.85	0.00	
	14000.00	89.93	0.00	8450.77	5656.01	-392.98	5666.78	0.00	
	14100.00	89.93	0.00	8450.90	5756.01	-392.98	5766.71	0.00	
	14200.00	89.93	0.00	8451.03	5856.01	-392.98	5866.64	0.00	
	14300.00	89.93	0.00	8451.16	5956.01	-392.98	5966.57	0.00	
	14400.00	89.93	0.00	8451.29	6056.00	-392.98	6066.50	0.00	
	14500.00	89.93	0.00	8451.42	6256.00	-392.90	6266 35	0.00	
	14700.00	89.93	0.00	8451.68	6356.00	-392.98	6366.28	0.00	
	14800.00	89.93	0.00	8451.81	6456.00	-392.98	6466.21	0.00	
	14900.00	89.93	0.00	8451.94	6556.00	-392.98	6566.14	0.00	
	15000.00	89.93	0.00	8452.07	6656.00	-392.98	6666.07	0.00	
	15100.00	89.93	0.00	8452.20	6756.00	-392.98	6766.00	0.00	
	15200.00	89.93	0.00	8452.33 8452.46	6856.00 6956.00	-392.98	6965.93	0.00	
	15400.00	89.93	0.00	8452.59	7056.00	-392.98	7065.79	0.00	
	15500.00	89.93	0.00	8452.72	7156.00	-392.98	7165.72	0.00	
	15600.00	89.93	0.00	8452.85	7256.00	-392.98	7265.65	0.00	
	15700.00	89.93	0.00	8452.98	7356.00	-392.98	7365.58	0.00	
	15800.00	89.93	0.00	8453.11	7456.00	-392.98	7465.51	0.00	
	15900.00	89.93	0.00	8453.24	7556.00	-392.98	7565.43	0.00	
	16100.00	89.93	0.00	8453 51	7050.00	-392.90	7005.30	0.00	
	16200.00	89.93	0.00	8453.64	7856.00	-392.98	7865.22	0.00	
	16300.00	89.93	0.00	8453.77	7956.00	-392.98	7965.15	0.00	
	16400.00	89.93	0.00	8453.90	8056.00	-392.98	8065.08	0.00	
	16500.00	89.93	0.00	8454.03	8156.00	-392.98	8165.01	0.00	
	16600.00	89.93	0.00	8454.16	8256.00	-392.98	8264.94	0.00	
	16700.00	89.93	0.00	8454.29 8454.42	8356.00	-392.98	8364.87	0.00	
	16900.00	89.93	0.00	8454.55	8556.00	-392.98	8564.73	0.00	
	17000.00	89.93	0.00	8454.68	8656.00	-392.98	8664.66	0.00	
	17100.00	89.93	0.00	8454.81	8756.00	-392.98	8764.59	0.00	
	17200.00	89.93	0.00	8454.94	8856.00	-392.98	8864.52	0.00	
	17300.00	89.93	0.00	8455.07	8956.00	-392.98	8964.44	0.00	
	17400.00	89.93	0.00	8455.20	9056.00	-392.98	9064.37	0.00	
	17500.00	89.93	0.00	8455.46	9256.00	-392.90	9264.30	0.00	
	17700.00	89.93	0.00	8455.59	9356.00	-392.98	9364.16	0.00	
	17800.00	89.93	0.00	8455.72	9456.00	-392.98	9464.09	0.00	
	17900.00	89.93	0.00	8455.85	9556.00	-392.98	9564.02	0.00	
	18000.00	89.93	0.00	8455.98	9656.00	-392.98	9663.95	0.00	
	18100.00	89.93	0.00	8456.11	9756.00	-392.98	9763.88	0.00	
	18200.00	89.93 89.93	0.00	0456.24 8456.27	9056.00 9956.00	-392.98 -392.98	9063.81	0.00	
	18400.00	89.93	0.00	8456.50	10056.00	-392.98	10063.67	0.00	
	18500.00	89.93	0.00	8456.63	10156.00	-392.98	10163.60	0.00	
	18600.00	89.93	0.00	8456.76	10256.00	-392.98	10263.53	0.00	
	18700.00	89.93	0.00	8456.89	10356.00	-392.98	10363.45	0.00	
	18712.96	89.93	0.00	8456.91	10368.96	-392.98	10376.40	0.00	Exit
	10/92.90	09.93	0.00	0457.UU	10448.96	-392.98	10456.35	0.00	DIL

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1. Geologic Formations

TVD of target	8457	Pilot hole depth	N/A
MD at TD:	18793	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	114		
Top of Salt	469		
Base of Salt	2544		
Lamar	2784		
Bell Canyon	2784		
Cherry Canyon	3674		
Brushy Canyon	5224		
1st Bone Spring Lime	6484		
1st Bone Spring Sand	7469		
Bone Spring 2nd	8269		

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

		W/t			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	139	0	139
12 1/4	9 5/8	40	J-55	BTC	0	2644	0	2644
8 3/4	5 1/2	17	P110	BTC	0	18793	0	8457

2. Casing Program

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

SPUD MUFFIN 31-30 FED COM 231H

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	139	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	266	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	2144	13.2	1.4	Tail: Class H / C + additives
Int 1	345	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	266	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	2144	13.2	1.4	Tail: Class H / C + additives
Production	491	2144	9.0	3.3	Lead: Class H /C + additives
	2101	7904	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (3-String Primary Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:														
		5M	An	Annular		50% of rated working pressure														
Int 1	13 5/8"		Bline	d Ram	Х															
1111 1	13-3/0		Pipe Ram			5M														
			Double Ram		X	5101														
			Other*																	
		5M	Annular		Х	50% of rated working														
	13-5/8"					pressure														
Production			5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	Blind Ram		X	
			Pipe Ram			- 5M														
			Doub	le Ram	X															
			Other*																	
			Annular (5M)																	
	Blind Ram Pipe Ram																			
			Doub	le Ram																
			Other*																	

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

6. Logging and Testing Procedures

Logging, Coring and Testing						
	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.					

Additional logs planned		Interval		
	Resistivity			
	Density			
Х	CBL	Production casing		
Х	Mud log	KOP to TD		
	PEX			

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	3958
Abnormal temperature	No

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

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

Ν	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 pad.
- 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. At 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

Spud Muffin 31-30 Fed Com 231H

13 3/8		surface csg in a	17 1/2	inch hole.		Design	Factors			Surfa	се	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	48.00		h 40	btc	45.08	6.59	1.2	250	16	2.01	12.44	12,000
"B"				btc				0				0
	w/	/8.4#/g mud, 30min Sfc Csg Test	psig: 1,102	Tail Cmt	does not	circ to sfc.	Totals:	250	-			12,000
Comparison	of Proposed	to Minimum Required Ceme	ent Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	139	195	174	12	9.00	861	2M				1.56
1												
						·_·_·			_			
9 5/8		casing inside the	13 3/8			Design	Factors		-	Int	1	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		j 55	btc	5.96	1.78	1	2,644	3	1.89	2.99	105,760
"B"								0				0
	w,	/8.4#/g mud, 30min Sfc Csg Test	psig:				Totals:	2,644				105,760
		The cement	volume(s) are inter	ided to achieve a top of	0	ft from su	Irface or a	250				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.3132	420	1093	844	30	10.50	2093	3M				0.81
Class 'C' tail cr	nt yld > 1.35											
									-			
5 1/2		casing inside the	9 5/8			Design Fa	ctors			Prod	1	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00		p 110	btc	3.80	1.89	2.69	18,793	3	5.08	3.57	319,481
"B"								0				0
	w/	/8.4#/g mud, 30min Sfc Csg Test	psig: 1,861				Totals:	18,793				319,481
		The cement	volume(s) are inter	ded to achieve a top of	2444	ft from su	Inface or a	200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
8 3/4	0.2526	2592	4562	4131	10	9.00						1.35
Class 'C' tail cr	mt yld > 1.35											
#NI/Δ												
			5 1/2			Design	Factors		- <0	hoose (asing>	
Segment	#/ft	Grade	51/2	Coupling	#N/Δ	Collanse	Burst	l onath	B@s	a-R	a-C	Weight
" <u></u> Δ"		Grudo		0.00		Conapoo	Buildt	0	260	4 5		0
"B"				0.00				0				n n
		/9 Att/a mud 20min Sfc Cca Test	osia:	0.00			Totale	0				0
	w,	Cmt vol c	paig. alc helow includes	this can TOC intended	#N/Δ	ft from su	inface or a	#N/Δ				overlan
Hole	Annular	1 Stage	1 Stane	Min	1 Stage	Drilling	Calc	Reald				Min Diet
Size	Volume	Cmt Sr	CuEt Cmt	Cu Et	% Excess	Mud Wt	MASP	BOPE				Hole-Colo
0120	volume	4N/Δ	#NI/Δ	0		Mud Wt	MAGE	DOFE				noie-opig
#N/A			Canitan Reef e	st ton XXXX								
			cupitan neel e	51 top /0/01.								

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

All Previous COAs Still Apply. Variance request procedure is approved as written, please see below general conditions for variance.

A. PRESSURE CONTROL

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 (575-361-2822 Eddy 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) 393-3612
- 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. 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. 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.

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CONDITIONS

Operator:	OGRID:		
DEVON ENERGY PRODUCTION COMPANY, LP	6137		
333 West Sheridan Ave.	Action Number:		
Oklahoma City, OK 73102	227155		
	Action Type:		
	[C-103] NOI Change of Plans (C-103A)		

CONDI	TIONS
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	Created By	Condition	Condition Date		
	ward.rikala	Original COA's still apply.	7/12/2023		

CONDITIONS

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Action 227155