Received by OCD: 5/22/2022 10:33:21 AM U.S. Department of the Interior		Sundry Print Reports 07/22/2022
BUREAU OF LAND MANAGEMENT		and the street
Well Name: SERPENTINE 2-35 STATE FED COM	Well Location: T23S / R33E / SEC 2 / SESE /	County or Parish/State:
Well Number: 27H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM113969	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550071	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2674026

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/31/2022

Date proposed operation will begin: 05/31/2022

Type of Action: APD Change Time Sundry Submitted: 09:38

Procedure Description: Devon Energy Production Company, L.P. respectfully requests approval for optional surface casing/drilling plan of 10-3/4" surface casing inside of 13-1/2" surface hole at previously permitted set depths. Devon Energy Production Company, L.P. will circulate class C cement to surface behind the 10-3/4" casing. Devon is also requesting a break test variance. The variance request and chart are attached.

NOI Attachments

Procedure Description

break_test_variance_BOP_20220531093731.pdf SERPENTINE_2_35_St_Fed_Com_27H_Directional_Plan_05_10_22_20220531093527.pdf SERPENTINE_2_35_St_Fed_Com_27H_20220531093514.pdf 8.625_32lb_P110HSCY_TLW_20220531093403.PDF 10.750_40.5lb_H40_20220531093403.pdf 5.5_17lb_P110_BTC_20220531093402.pdf

k	eceived by OCD: 7/22/2022 10:33:21 AM Well Name: SERPENTINE 2-35 STATE FED COM	Well Location: T23S / R33E / SEC 2 / SESE /	County or Parish/State: Page 2 of 30
	Well Number: 27H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM113969	Unit or CA Name:	Unit or CA Number:
	US Well Number: 3002550071	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Additional

2_23_33_P_Sundry_ID_2674026_Serpentine_2_35_State_Fed_Com_27H_Lea_NM113969_13_22d_1_13_22_LV_202 20707081201.pdf

Serpentine_2_35_State_Fed_Com_27H_Dr_COA_Sundry_ID_2674026_20220707081134.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:

BLM Point of Contact

BLM POC Name: CODY LAYTON BLM POC Phone: 5752345959 Disposition: Approved Signature: Cody R. Layton Signed on: MAY 31, 2022 09:34 AM

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Email Address: clayton@blm.gov

Zip:

Disposition Date: 07/20/2022

USS

UNCONTROLLED

U. S. Steel Tubular Products 10.750" 40.50lb/ft (0.350" Wall) H40

MECHANICAL PROPERTIES	Pipe	втс	LTC	STC		
Minimum Yield Strength	40,000				psi	
Maximum Yield Strength	80,000				psi	
Minimum Tensile Strength	60,000				psi	
DIMENSIONS	Pipe	BTC	LTC	STC		
Outside Diameter	10.750	0.000	0.000	11.750	in.	
Wall Thickness	0.350				in.	
Inside Diameter	10.050			10.050	in.	
Standard Drift	9.894	9.894	9.894	9.894	in.	
Alternate Drift					in.	
Nominal Linear Weight, T&C	40.50				lb/ft	
Plain End Weight	38.91				lb/ft	
PERFORMANCE	Pipe	втс	LTC	STC		
Minimum Collapse Pressure	1,390	1,390	1,390	1,390	psi	
Minimum Internal Yield Pressure	2,280	2,280	2,280	2,280	psi	
Minimum Pipe Body Yield Strength	457				1,000 lbs	
Joint Strength				314	1,000 lbs	
Reference Length				5,164	ft	
MAKE-UP DATA	Pipe	втс	LTC	STC		
Make-Up Loss				3.50	in.	
Make-Up Loss Minimum Make-Up Torque	-			3.50 2,360	in. ft-lb	

Notes

Legal Notice

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com



U. S. Steel Tubular Products 5.500" 17.00lbs/ft (0.304" Wall) P110

2/21/2019 8:12:22 AM

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC	
Minimum Yield Strength	110,000				psi
Maximum Yield Strength	140,000				psi
Minimum Tensile Strength	125,000				psi
DIMENSIONS	Pipe	BTC	LTC	STC	
Outside Diameter	5.500	6.050	6.050		in.
Wall Thickness	0.304				in.
Inside Diameter	4.892	4.892	4.892		in.
Standard Drift	4.767	4.767	4.767		in.
Alternate Drift					in.
Nominal Linear Weight, T&C	17.00				lbs/ft
Plain End Weight	16.89				lbs/ft
PERFORMANCE	Pipe	BTC	LTC	STC	
Minimum Collapse Pressure	7,480	7,480	7,480		psi
Minimum Internal Yield Pressure	10,640	10,640	10,640		psi
Minimum Pipe Body Yield Strength	546				1,000 lbs
Joint Strength		568	445		1,000 lbs
Reference Length		22,271	17,449		ft
MAKE-UP DATA	Pipe	BTC	LTC	STC	
Make-Up Loss		4.13	3.50		in.
Minimum Make-Up Torque			3,470		ft-lbs
Maximum Make-Up Torque			5,780		ft-Ibs

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1-877-893-9461 www.usstubular.com

TEC-LOCK WEDGE

8.625" 32.00 LB/FT (.352" Wall) BORUSAN MANNESMANNP110 HSCY

Pipe Body Data

Nominal OD:	8.625	in
Nominal Wall:	.352	in
Nominal Weight:	32.00	lb/ft
Plain End Weight:	31.13	lb/ft
Material Grade:	P110 HSCY	
Mill/Specification:	BORUSAN M	ANNESMANN
Yield Strength:	125,000	psi
Tensile Strength:	125,000	psi
Nominal ID:	7.921	in
API Drift Diameter:	7.796	in
Special Drift Diameter:	7.875	in
RBW:	87.5 %	
Body Yield:	1,144,000	lbf
Burst:	8,930	psi
Collapse:	4,230	psi

Connection Data

Standard OD:	9.000	in	
Pin Bored ID:	7.921	in	
Critical Section Area:	8.61433	in²	
Tensile Efficiency:	94.2 %		
Compressive Efficiency:	100.0 %		
Longitudinal Yield Strength:	1,077,000	lbf	
Compressive Limit:	1,144,000	lbf	
Internal Pressure Rating:	8,930	psi	
External Pressure Rating:	4,230	psi	
Maximum Bend:	62.6	°/100	

Operational Data

	Minimum Makeup Torque:		ft*lbf
	Optimum Makeup Torque:	37,375	ft*lbf
	Maximum Makeup Torque:	80,900	ft*lbf
	Minimum Yield:	89,900	ft*lbf
	Makeup Loss:	5.97	in

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque.



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Please visit http://www.huntingplc.com for the latest technical information.

Received by OCD: 7/22/2022 10:33:21 AM

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



1. Geologic Formations

TVD of target	12275	Pilot hole depth	N/A
MD at TD:	22622	Deepest expected fresh water	

Basin

Formation	Depth	Water/Mineral	Hazards*
Formation	(TVD) from KB	Bearing/Target Zone?	nazarus*
Rustler	952	Lone .	
Salt	1233		
Base of Salt	5068		
Delaware	5068		
Cherry Canyon	5918		
Brushy Canyon	7319		
1st Bone Spring Lime	8981		
Bone Spring 1st	10018		
Bone Spring 2nd	10590		
3rd Bone Spring Lime	11087		
Bone Spring 3rd	11755		
Wolfcamp	12072		

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

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2.	Casing	Program	(Primary	Design)
<i>_</i> .	Casing	I I Ugi am	(I I IIIIGI y	Dusigni

		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	977	0	977
9 7/8	8 5/8	32	P110	TLW	0	11755	0	11755
7 7/8	5 1/2	17	P110	BTC	0	22622	0	12275

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

3. Cementing Program (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	394	Surf	13.2	1.44	Lead: Class C Cement + additives
Let 1	383	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	383	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	9807	9	3.27	Lead: Class H /C + additives
roduction	1431	11807	13.2	1.44	Tail: Class H / C + additives

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	~	Tested to:	
			Anı	nular	Х	50% of rated working pressure	
Int 1	13-5/8"	5M		d Ram	Х		
	15 5/6	5101		e Ram		5M	
			Doub	le Ram	X	5101	
			Other*				
			Annular (5M)		Х	100% of rated working pressure	
Production	13-5/8"	10M	Blind Ram		Х		
Fioduction			Pipe Ram			10M	
			Double Ram		Х	10111	
			Other*				
			Annul	ar (5M)			
	Blind Ram						
			Pipe	e Ram			
			Doub	le Ram			
			Other*				
N A variance is requested for	the use of a	a diverter or	the surface	casing. See	attached for	schematic.	
Y A variance is requested to	run a 5 M a	nnular on a	10M system	l			

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

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

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	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	Completion Rpeort and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6702
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.

Y H2S plan attached.	N	H2S is present
I I		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

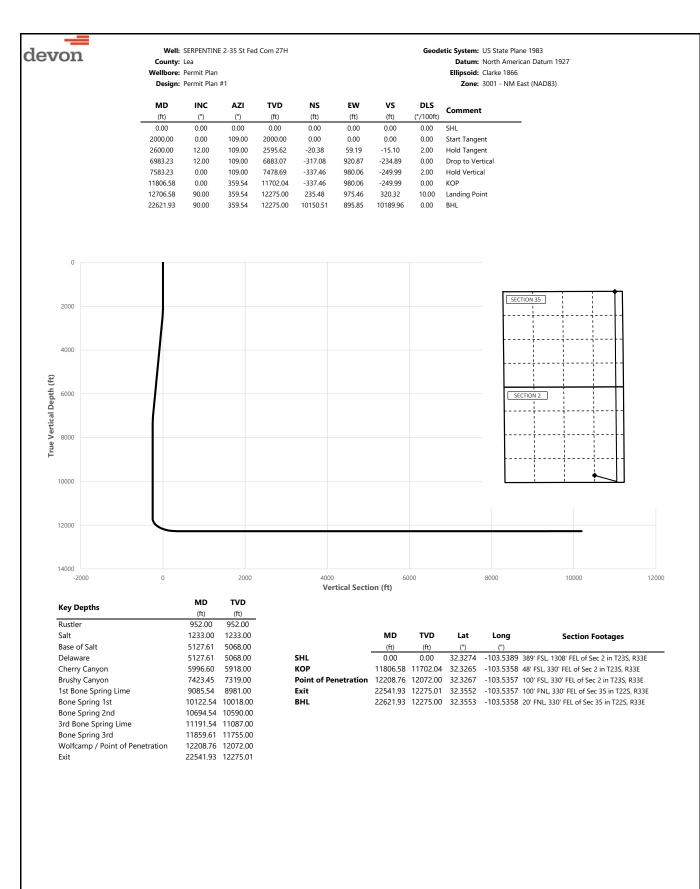
from the pad until all wells have production casing run/cemented.

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



levon		County: Wellbore:			l Com 27H				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) 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	109.00	100.00	0.00	0.00	0.00	0.00	SHE
	200.00	0.00	109.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	109.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	109.00	400.00 500.00	0.00	0.00	0.00	0.00	
	500.00 600.00	0.00 0.00	109.00 109.00	600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	700.00	0.00	109.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	109.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	109.00	900.00	0.00	0.00	0.00	0.00	
	952.00	0.00	109.00	952.00	0.00	0.00	0.00	0.00	Rustler
	1000.00 1100.00	0.00 0.00	109.00 109.00	1000.00 1100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1200.00	0.00	109.00	1200.00	0.00	0.00	0.00	0.00	
	1233.00	0.00	109.00	1233.00	0.00	0.00	0.00	0.00	Salt
	1300.00	0.00	109.00	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	109.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	109.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00 1700.00	0.00 0.00	109.00 109.00	1600.00 1700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1800.00	0.00	109.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	109.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	109.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	109.00	2099.98	-0.57	1.65	-0.42	2.00	
	2200.00 2300.00	4.00 6.00	109.00 109.00	2199.84 2299.45	-2.27 -5.11	6.60 14.84	-1.68 -3.78	2.00 2.00	
	2300.00	8.00	109.00	2299.45	-9.08	26.36	-6.72	2.00	
	2500.00	10.00	109.00	2497.47	-14.17	41.15	-10.50	2.00	
	2600.00	12.00	109.00	2595.62	-20.38	59.19	-15.10	2.00	Hold Tangent
	2700.00	12.00	109.00	2693.44	-27.15	78.85	-20.11	0.00	
	2800.00	12.00	109.00	2791.25	-33.92	98.51	-25.13	0.00	
	2900.00 3000.00	12.00 12.00	109.00 109.00	2889.07 2986.88	-40.69 -47.46	118.17 137.83	-30.14 -35.16	0.00 0.00	
	3100.00	12.00	109.00	3084.70	-54.23	157.48	-40.17	0.00	
	3200.00	12.00	109.00	3182.51	-60.99	177.14	-45.18	0.00	
	3300.00	12.00	109.00	3280.33	-67.76	196.80	-50.20	0.00	
	3400.00	12.00	109.00	3378.14	-74.53	216.46	-55.21	0.00	
	3500.00 3600.00	12.00	109.00	3475.96	-81.30	236.12	-60.23	0.00	
	3700.00	12.00 12.00	109.00 109.00	3573.77 3671.59	-88.07 -94.84	255.78 275.43	-65.24 -70.26	0.00 0.00	
	3800.00	12.00	109.00	3769.40	-101.61	295.09	-75.27	0.00	
	3900.00	12.00	109.00	3867.22	-108.38	314.75	-80.29	0.00	
	4000.00	12.00	109.00	3965.03	-115.15	334.41	-85.30	0.00	
	4100.00	12.00	109.00	4062.84	-121.91	354.07	-90.31	0.00	
	4200.00 4300.00	12.00 12.00	109.00 109.00	4160.66 4258.47	-128.68 -135.45	373.73 393.39	-95.33 -100.34	0.00 0.00	
	4300.00 4400.00	12.00	109.00	4256.47 4356.29	-135.45 -142.22	393.39 413.04	-100.34 -105.36	0.00	
	4500.00	12.00	109.00	4454.10	-148.99	432.70	-110.37	0.00	
	4600.00	12.00	109.00	4551.92	-155.76	452.36	-115.39	0.00	
	4700.00	12.00	109.00	4649.73	-162.53	472.02	-120.40	0.00	
	4800.00 4900.00	12.00 12.00	109.00 109.00	4747.55	-169.30 -176.07	491.68 511.34	-125.42 -130.43	0.00 0.00	
	4900.00 5000.00	12.00	109.00	4845.36 4943.18	-176.07 -182.84	511.34 530.99	-130.43 -135.44	0.00	
	5100.00	12.00	109.00	5040.99	-189.60	550.65	-140.46	0.00	
	5127.61	12.00	109.00	5068.00	-191.47	556.08	-141.84	0.00	Base of Salt, Delaware
	5200.00	12.00	109.00	5138.81	-196.37	570.31	-145.47	0.00	
	5300.00	12.00	109.00	5236.62	-203.14	589.97	-150.49	0.00	
	5400.00 5500.00	12.00 12.00	109.00 109.00	5334.44 5432.25	-209.91 -216.68	609.63 629.29	-155.50 -160.52	0.00 0.00	
	5600.00	12.00	109.00	5432.25 5530.07	-210.00	648.94	-165.53	0.00	
	5700.00	12.00	109.00	5627.88	-230.22	668.60	-170.54	0.00	
	5800.00	12.00	109.00	5725.70	-236.99	688.26	-175.56	0.00	
	5900.00	12.00	109.00	5823.51	-243.76	707.92	-180.57	0.00	
	5996.60	12.00	109.00	5918.00	-250.29	726.91	-185.42	0.00	Cherry Canyon
	6000.00 6100.00	12.00 12.00	109.00	5921.33 6019 14	-250.52	727.58 747.24	-185.59 -190.60	0.00	
	6100.00 6200.00	12.00 12.00	109.00 109.00	6019.14 6116.95	-257.29 -264.06	747.24 766.90	-190.60 -195.62	0.00 0.00	
	6300.00	12.00	109.00	6214.77	-270.83	786.55	-200.63	0.00	
	6400.00	12.00	109.00	6312.58	-277.60	806.21	-205.65	0.00	
	6500.00	12.00	109.00	6410.40	-284.37	825.87	-210.66	0.00	

devon		Well:	SERPENTIN	IE 2-35 St Fed	Com 27H				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
			Permit Plar Permit Plar						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
		j							
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
-	(ft) 6600.00	(°) 12.00	(°) 109.00	(ft) 6508.21	(ft) -291.14	(ft) 845.53	(ft) -215.67	(°/100ft) 0.00	
	6700.00	12.00	109.00	6606.03	-297.91	865.19	-220.69	0.00	
	6800.00	12.00	109.00	6703.84	-304.68	884.85	-225.70	0.00	
	6900.00	12.00	109.00	6801.66	-311.44	904.50	-230.72	0.00	Draw to Martinal
	6983.23 7000.00	12.00 11.66	109.00 109.00	6883.07 6899.48	-317.08 -318.20	920.87 924.12	-234.89 -235.72	0.00 2.00	Drop to Vertical
	7100.00	9.66	109.00	6997.75	-324.22	941.61	-240.18	2.00	
	7200.00	7.66	109.00	7096.60	-329.13	955.86	-243.82	2.00	
	7300.00	5.66	109.00	7195.92	-332.91	966.83	-246.62	2.00	
	7400.00 7423.45	3.66 3.20	109.00 109.00	7295.59 7319.00	-335.55 -336.01	974.52 975.85	-248.58 -248.92	2.00 2.00	Brushy Canyon
	7500.00	1.66	109.00	7395.47	-337.07	978.91	-249.70	2.00	
	7583.23	0.00	109.00	7478.69	-337.46	980.06	-249.99	2.00	Hold Vertical
	7600.00	0.00	359.54	7495.46	-337.46	980.06	-249.99	0.00	
	7700.00 7800.00	0.00 0.00	359.54 359.54	7595.46 7695.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	7900.00	0.00	359.54	7795.46	-337.46	980.06	-249.99	0.00	
	8000.00	0.00	359.54	7895.46	-337.46	980.06	-249.99	0.00	
	8100.00	0.00	359.54	7995.46	-337.46	980.06	-249.99	0.00	
	8200.00 8300.00	0.00 0.00	359.54 359.54	8095.46 8195.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	8400.00	0.00	359.54	8295.46	-337.46	980.06 980.06	-249.99	0.00	
	8500.00	0.00	359.54	8395.46	-337.46	980.06	-249.99	0.00	
	8600.00	0.00	359.54	8495.46	-337.46	980.06	-249.99	0.00	
	8700.00 8800.00	0.00 0.00	359.54 359.54	8595.46 8695.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	8900.00	0.00	359.54	8795.46	-337.46	980.06 980.06	-249.99	0.00	
	9000.00	0.00	359.54	8895.46	-337.46	980.06	-249.99	0.00	
	9085.54	0.00	359.54	8981.00	-337.46	980.06	-249.99	0.00	1st Bone Spring Lime
	9100.00 9200.00	0.00 0.00	359.54 359.54	8995.46 9095.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	9300.00	0.00	359.54	9195.46	-337.46	980.06	-249.99	0.00	
	9400.00	0.00	359.54	9295.46	-337.46	980.06	-249.99	0.00	
	9500.00	0.00	359.54	9395.46	-337.46	980.06	-249.99	0.00	
	9600.00 9700.00	0.00 0.00	359.54 359.54	9495.46 9595.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	9800.00	0.00	359.54	9695.46	-337.46	980.06	-249.99	0.00	
	9900.00	0.00	359.54	9795.46	-337.46	980.06	-249.99	0.00	
	10000.00	0.00	359.54	9895.46	-337.46	980.06	-249.99	0.00	
	10100.00 10122.54	0.00 0.00	359.54 359.54	9995.46 10018.00	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	Bone Spring 1st
	10200.00	0.00	359.54	10095.46	-337.46	980.06	-249.99	0.00	
	10300.00	0.00	359.54	10195.46	-337.46	980.06	-249.99	0.00	
	10400.00	0.00	359.54	10295.46	-337.46	980.06	-249.99	0.00	
	10500.00 10600.00	0.00 0.00	359.54 359.54	10395.46 10495.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	10694.54	0.00	359.54	10590.00	-337.46	980.06	-249.99	0.00	Bone Spring 2nd
	10700.00	0.00	359.54	10595.46	-337.46	980.06	-249.99	0.00	
	10800.00	0.00	359.54	10695.46	-337.46	980.06	-249.99	0.00	
	10900.00 11000.00	0.00 0.00	359.54 359.54	10795.46 10895.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	11100.00	0.00	359.54	10995.46	-337.46	980.06	-249.99	0.00	
	11191.54	0.00	359.54	11087.00	-337.46	980.06	-249.99	0.00	3rd Bone Spring Lime
	11200.00	0.00	359.54	11095.46	-337.46	980.06	-249.99	0.00	
	11300.00 11400.00	0.00 0.00	359.54 359.54	11195.46 11295.46	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	
	11500.00	0.00	359.54	11395.46	-337.46	980.06	-249.99	0.00	
	11600.00	0.00	359.54	11495.46	-337.46	980.06	-249.99	0.00	
	11700.00	0.00	359.54	11595.46	-337.46	980.06	-249.99	0.00	
	11800.00 11806.58	0.00 0.00	359.54 359.54	11695.46 11702.04	-337.46 -337.46	980.06 980.06	-249.99 -249.99	0.00 0.00	КОР
	11859.61	5.30	359.54 359.54	11702.04	-337.46	980.06 980.04	-249.99 -247.55	10.00	Bone Spring 3rd
	11900.00	9.34	359.54	11795.05	-329.86	980.00	-242.43	10.00	
	12000.00	19.34	359.54	11891.81	-305.12	979.80	-217.80	10.00	
	12100.00 12200.00	29.34 39.34	359.54 359.54	11982.80 12065.27	-263.96 -207.62	979.47 979.01	-176.83 -120.74	10.00 10.00	
	12200.00	40.22	359.54	12065.27	-207.82	979.01 978.97	-120.74	10.00	Wolfcamp / Point of Penetration
	12300.00	49.34	359.54	12136.70	-137.82	978.45	-51.26	10.00	
	12400.00	59.34	359.54	12194.92	-56.67	977.80	29.51	10.00	
	12500.00	69.34	359.54	12238.16	33.35	977.08	119.12	10.00	
L									

devon		Well:	SERPENTIN	IE 2-35 St Fed	Com 27H				Geodetic System: US State Plane 1983
uevon		County:							Datum: North American Datum 1927
			Permit Plar Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	1#1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
_	(ft) 12600.00	(°)	(°)	(ft) 12265.12	(ft)	(ft)	(ft)	(°/100ft)	
	12800.00	79.34 89.34	359.54 359.54	12265.12	129.52 228.90	976.31 975.51	214.85 313.78	10.00 10.00	
	12706.58	90.00	359.54	12275.00	235.48	975.46	320.32	10.00	Landing Point
	12800.00	90.00	359.54	12275.00	328.90	974.71	413.32	0.00	
	12900.00	90.00	359.54	12275.00	428.89	973.90	512.85	0.00	
	13000.00 13100.00	90.00 90.00	359.54 359.54	12275.00 12275.00	528.89 628.89	973.10 972.30	612.39 711.93	0.00 0.00	
	13200.00	90.00	359.54	12275.00	728.88	971.49	811.47	0.00	
	13300.00	90.00	359.54	12275.00	828.88	970.69	911.01	0.00	
	13400.00	90.00	359.54	12275.00	928.88	969.89	1010.55	0.00	
	13500.00 13600.00	90.00 90.00	359.54 359.54	12275.00 12275.00	1028.87 1128.87	969.08 968.28	1110.09 1209.63	0.00 0.00	
	13700.00	90.00	359.54	12275.00	1228.87	967.48	1309.17	0.00	
	13800.00	90.00	359.54	12275.00	1328.86	966.67	1408.70	0.00	
	13900.00	90.00	359.54	12275.00	1428.86	965.87	1508.24	0.00	
	14000.00	90.00	359.54	12275.00	1528.86	965.07	1607.78	0.00	
	14100.00 14200.00	90.00 90.00	359.54 359.54	12275.00 12275.00	1628.85 1728.85	964.26 963.46	1707.32 1806.86	0.00 0.00	
	14200.00	90.00	359.54	12275.00	1828.85	962.66	1906.40	0.00	
	14400.00	90.00	359.54	12275.00	1928.84	961.85	2005.94	0.00	
	14500.00	90.00	359.54	12275.00	2028.84	961.05	2105.48	0.00	
	14600.00 14700.00	90.00 90.00	359.54 359.54	12275.00 12275.00	2128.84 2228.83	960.25 959.44	2205.02 2304.56	0.00 0.00	
	14700.00	90.00	359.54	12275.00	2328.83	958.64	2404.09	0.00	
	14900.00	90.00	359.54	12275.00	2428.83	957.84	2503.63	0.00	
	15000.00	90.00	359.54	12275.00	2528.83	957.03	2603.17	0.00	
	15100.00	90.00	359.54 359.54	12275.00	2628.82	956.23	2702.71	0.00	
	15200.00 15300.00	90.00 90.00	359.54 359.54	12275.00 12275.00	2728.82 2828.82	955.43 954.62	2802.25 2901.79	0.00 0.00	
	15400.00	90.00	359.54	12275.00	2928.81	953.82	3001.33	0.00	
	15500.00	90.00	359.54	12275.00	3028.81	953.02	3100.87	0.00	
	15600.00	90.00 90.00	359.54 359.54	12275.00 12275.00	3128.81 3228.80	952.21	3200.41	0.00	
	15700.00 15800.00	90.00	359.54 359.54	12275.00	3328.80	951.41 950.61	3299.94 3399.48	0.00 0.00	
	15900.00	90.00	359.54	12275.00	3428.80	949.80	3499.02	0.00	
	16000.00	90.00	359.54	12275.00	3528.79	949.00	3598.56	0.00	
	16100.00	90.00	359.54	12275.00	3628.79	948.20	3698.10	0.00	
	16200.00 16300.00	90.00 90.00	359.54 359.54	12275.00 12275.00	3728.79 3828.78	947.39 946.59	3797.64 3897.18	0.00 0.00	
	16400.00	90.00	359.54	12275.00	3928.78	945.79	3996.72	0.00	
	16500.00	90.00	359.54	12275.00	4028.78	944.98	4096.26	0.00	
	16600.00	90.00	359.54	12275.00	4128.77	944.18	4195.80	0.00	
	16700.00 16800.00	90.00 90.00	359.54 359.54	12275.00 12275.01	4228.77 4328.77	943.38 942.57	4295.33 4394.87	0.00 0.00	
	16900.00	90.00	359.54	12275.01	4428.76	941.77	4494.41	0.00	
	17000.00	90.00	359.54	12275.01	4528.76	940.97	4593.95	0.00	
	17100.00 17200.00	90.00	359.54	12275.01	4628.76	940.16	4693.49	0.00	
	17200.00	90.00 90.00	359.54 359.54	12275.01 12275.01	4728.75 4828.75	939.36 938.56	4793.03 4892.57	0.00 0.00	
	17400.00	90.00	359.54	12275.01	4928.75	937.75	4992.11	0.00	
	17500.00	90.00	359.54	12275.01	5028.74	936.95	5091.65	0.00	
	17600.00	90.00	359.54	12275.01	5128.74	936.15 935.34	5191.18	0.00	
	17700.00 17800.00	90.00 90.00	359.54 359.54	12275.01 12275.01	5228.74 5328.73	935.34 934.54	5290.72 5390.26	0.00 0.00	
	17900.00	90.00	359.54	12275.01	5428.73	933.74	5489.80	0.00	
	18000.00	90.00	359.54	12275.01	5528.73	932.93	5589.34	0.00	
	18100.00	90.00	359.54	12275.01	5628.73	932.13	5688.88	0.00	
	18200.00 18300.00	90.00 90.00	359.54 359.54	12275.01 12275.01	5728.72 5828.72	931.32 930.52	5788.42 5887.96	0.00 0.00	
	18400.00	90.00	359.54	12275.01	5928.72	929.72	5987.50	0.00	
	18500.00	90.00	359.54	12275.01	6028.71	928.91	6087.04	0.00	
	18600.00	90.00	359.54	12275.01	6128.71	928.11	6186.57	0.00	
	18700.00	90.00	359.54	12275.01	6228.71	927.31	6286.11	0.00	
	18800.00 18900.00	90.00 90.00	359.54 359.54	12275.01 12275.01	6328.70 6428.70	926.50 925.70	6385.65 6485.19	0.00 0.00	
	19000.00	90.00	359.54	12275.01	6528.70	924.90	6584.73	0.00	
	19100.00	90.00	359.54	12275.01	6628.69	924.09	6684.27	0.00	
l	19200.00	90.00	359.54	12275.01	6728.69	923.29	6783.81	0.00	
	19300.00 19400.00	90.00 90.00	359.54 359.54	12275.01 12275.01	6828.69 6928.68	922.49 921.68	6883.35 6982.89	0.00 0.00	
	13400.00	20.00	555.54	12213.01	0520.00	521.00	0502.05	0.00	
B									

n	Well: SERPENTINE 2-35 St Fed Com 27H County: Lea Wellbore: Permit Plan Design: Permit Plan #1								Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
	19500.00	90.00	359.54	12275.01	7028.68	920.88	7082.42	0.00	
	19600.00	90.00	359.54	12275.01	7128.68	920.08	7181.96	0.00	
	19700.00	90.00	359.54	12275.01	7228.67	919.27	7281.50	0.00	
	19800.00	90.00	359.54	12275.01	7328.67	918.47	7381.04	0.00	
	19900.00	90.00	359.54	12275.01	7428.67	917.67	7480.58	0.00	
	20000.00	90.00	359.54	12275.01	7528.66	916.86	7580.12	0.00	
	20100.00	90.00	359.54	12275.01	7628.66	916.06	7679.66	0.00	
	20200.00	90.00	359.54	12275.01	7728.66	915.26	7779.20	0.00	
	20300.00	90.00	359.54	12275.01	7828.65	914.45	7878.74	0.00	
	20400.00	90.00	359.54	12275.01	7928.65	913.65	7978.27	0.00	
	20500.00	90.00	359.54	12275.01	8028.65	912.85	8077.81	0.00	
	20600.00	90.00	359.54	12275.01	8128.64	912.04	8177.35	0.00	
	20700.00	90.00	359.54	12275.01	8228.64	911.24	8276.89	0.00	
	20800.00	90.00	359.54	12275.01	8328.64	910.44	8376.43	0.00	
	20900.00	90.00	359.54	12275.01	8428.63	909.63	8475.97	0.00	
	21000.00	90.00	359.54	12275.01	8528.63	908.83	8575.51	0.00	
	21100.00	90.00	359.54	12275.01	8628.63	908.03	8675.05	0.00	
	21200.00	90.00	359.54	12275.01	8728.63	907.22	8774.59	0.00	
	21300.00	90.00	359.54	12275.01	8828.62	906.42	8874.13	0.00	
	21400.00	90.00	359.54	12275.01	8928.62	905.62	8973.66	0.00	
	21500.00	90.00	359.54	12275.01	9028.62	904.81	9073.20	0.00	
	21600.00	90.00	359.54	12275.01	9128.61	904.01	9172.74	0.00	
	21700.00	90.00	359.54	12275.01	9228.61	903.21	9272.28	0.00	
	21800.00	90.00	359.54	12275.01	9328.61	902.40	9371.82	0.00	
	21900.00	90.00	359.54	12275.01	9428.60	901.60	9471.36	0.00	
	22000.00	90.00	359.54	12275.01	9528.60	900.80	9570.90	0.00	
	22100.00	90.00	359.54	12275.01	9628.60	899.99	9670.44	0.00	
	22200.00	90.00	359.54	12275.01	9728.59	899.19	9769.98	0.00	
	22300.00	90.00	359.54	12275.01	9828.59	898.39	9869.51	0.00	
	22400.00	90.00	359.54	12275.01	9928.59	897.58	9969.05	0.00	
	22500.00	90.00	359.54	12275.01	10028.58	896.78	10068.59	0.00	
	22541.93	90.00	359.54	12275.01		896.44	10110.33	0.00	Exit
	22600.00	90.00	359.54	12275.01	10128.58	895.98	10168.13	0.00	
	22621.93	90.00	359.54	12275.00	10150.51	895.85	10189.96	0.00	BHL

County: Lea Datum: North American Datum 192 Wellbore: Permit Plan Ellipsoid: Clarke 1866 Design: Permit Plan #1 Zone: 3001 - NM East (NAD83)
Lone. 5001 - NIVI Edst (NADOS)
MD INC AZI TVD NS EW VS DLS Comment (ft) (°) (°) (ft) (ft) (ft) (ft) (°/100ft)

Serpentine 2-35 State Fed Com 27H

•		rface csg in a	13 1/2	inch hole.		Design	Factors			Surfac	e	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.50		h 40	btc	9.81	2.59	0.36	1,150	4	0.60	4.88	46,575
"B"				btc				0				0
	w/8.4#	#/g mud, 30min Sfc Csg Test	psig: 1.094	Tail Cmt	does not	circ to sfc.	Totals:	1,150				46,575
Comparison o		inimum Required Cem					rotaioi	.,				,
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-Cpl
13 1/2	0.3637	394	567	418	36	9.00	3826	5M				1.38
13 1/2	0.0007		001	410	50	5.00	3020	JIN				1.50
Jurst Frac Grad	dient(s) for Segn	nent(s) A, B = , b All > (0.70, ОК.		Site plat (pip	e racks S or E)	as per 0.0.1.	III.D.4.i. not	found.			
8 5/8	cas	ing inside the	10 3/4			Design	Factors			Int 1		
Segment	#/ft	Grade	/	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	tlw	2.86	0.66	1.33	11,755	1	2.24	1.11	-
"B"			1					0	- i - i			0
	w/8 4±	#/g mud, 30min Sfc Csg Test	nsig:				Totals:	11,755				376,160
				ded to achieve a top of	0	ft from su		1150				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
9 7/8	0.1261	848	1922	1504	28	10.50	3995	5M				0.44
lass 'H' tail cn		040	1922	1504	20	10.50	3993	JIM				0.44
Tail omt												
Tail cmt 5 1/2	cas	ing inside the	8 5/8			Design Fa	ctors			Prod 1	L	••=•
5 1/2	casi #/ft	ing inside the Grade	8 5/8	Coupling	Body	<u>Design Fa</u> Collapse	<u>ctors</u> Burst	Length	B@s	Prod 1 a-B	a-C	Weigh
5 1/2		0	8 5/8 p 110	Coupling btc	Body 2.62			Length 22,622	B@s 2			•
5 1/2 Segment	#/ft	0				Collapse	Burst	-	· ·	a-B	a-C	•
5 1/2 Segment "A"	#/ft 17.00	Grade	p 110			Collapse	Burst	22,622	· ·	a-B	a-C	384,57 0
5 1/2 Segment "A"	#/ft 17.00	Grade #/g mud, 30min Sfc Csg Test	p 110 psig: 2,701	btc		Collapse	Burst 1.59 Totals:	22,622 0	· ·	a-B	a-C	384,57 0
5 1/2 Segment "A"	#/ft 17.00	Grade #/g mud, 30min Sfc Csg Test The cement	p 110 _{psig:} 2,701 volume(s) are inter		2.62	Collapse 1.12 ft from su	Burst 1.59 Totals:	22,622 0 22,622 200	· ·	a-B	a-C	384,57 0 384,57 overlap.
5 1/2 Segment "A" "B" Hole	#/ft 17.00 w/8.4# Annular	Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage	p 110 ^{psig:} 2,701 volume(s) are inter 1 Stage	btc Ided to achieve a top of Min	2.62 11555 1 Stage	Collapse 1.12 ft from su Drilling	Burst 1.59 Totals:	22,622 0 22,622 200 Req'd	· ·	a-B	a-C	384,57 0 384,57 overlap. Min Dis
5 1/2 Segment "A" "B" Hole Size	#/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: 2,701 volume(s) are inter 1 Stage CuFt Cmt	btc Ided to achieve a top of Min Cu Ft	2.62 11555 1 Stage % Excess	Collapse 1.12 ft from su Drilling Mud Wt	Burst 1.59 Totals: Irface or a Calc	22,622 0 22,622 200	· ·	a-B	a-C	384,57 0 384,57 overlap. Min Dis Hole-Cpl
5 1/2 Segment "A" "B" Hole Size 7 7/8	#/ft 17.00 w/8.4# Annular Volume 0.1733	Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage	p 110 ^{psig:} 2,701 volume(s) are inter 1 Stage	btc Ided to achieve a top of Min	2.62 11555 1 Stage	Collapse 1.12 ft from su Drilling	Burst 1.59 Totals: Irface or a Calc	22,622 0 22,622 200 Req'd	· ·	a-B	a-C	384,574 0 384,574 overlap. Min Dist
5 1/2 Segment "A" "B" Hole Size	#/ft 17.00 w/8.4# Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt	btc Ided to achieve a top of Min Cu Ft	2.62 11555 1 Stage % Excess	Collapse 1.12 ft from su Drilling Mud Wt	Burst 1.59 Totals: Irface or a Calc	22,622 0 22,622 200 Req'd	· ·	a-B	a-C	0 384,574 overlap. Min Dist Hole-Cpl
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail or	#/ft 17.00 w/8.4# Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt	btc Ided to achieve a top of Min Cu Ft	2.62 11555 1 Stage % Excess	Collapse 1.12 ft from su Drilling Mud Wt	Burst 1.59 Totals: Inface or a Calc MASP	22,622 0 22,622 200 Req'd	2	a-B	a-C 1.87	384,574 0 384,574 overlap. Min Dist Hole-Cpl
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A	#/ft 17.00 w/8.4# Annular Volume 0.1733	Grade t/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443	btc Ided to achieve a top of Min Cu Ft	2.62 11555 1 Stage % Excess	Collapse 1.12 ft from su Drilling Mud Wt 10.50	Burst 1.59 Totals: Inface or a Calc MASP	22,622 0 22,622 200 Req'd	2	a-B 2.66	a-C 1.87	384,574 0 384,574 overlap. Min Dist Hole-Cpl
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443	btc Ided to achieve a top of Min Cu Ft 1918	2.62 11555 1 Stage % Excess 27	Collapse 1.12 ft from su Drilling Mud Wt 10.50 Design	Burst 1.59 Totals: Inface or a Calc MASP Factors	22,622 0 22,622 200 Req'd BOPE	2	a-B 2.66	a-C 1.87	384,574 0 384,574 overlap. Min Dist Hole-Cpl 0.91
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443	btc Ided to achieve a top of Min Cu Ft 1918 Coupling	2.62 11555 1 Stage % Excess 27	Collapse 1.12 ft from su Drilling Mud Wt 10.50 Design	Burst 1.59 Totals: Inface or a Calc MASP Factors	22,622 0 22,622 200 Req'd BOPE	2	a-B 2.66	a-C 1.87	384,574 0 384,574 overlap. Min Dis Hole-Cpl 0.91
5 1/2 Segment "A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0 Segment "A"	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35 #/ft	Grade //g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443 5 1/2	btc ided to achieve a top of Min Cu Ft 1918 Coupling 0.00	2.62 11555 1 Stage % Excess 27	Collapse 1.12 ft from su Drilling Mud Wt 10.50 Design	Burst 1.59 Totals: Inface or a Calc MASP Factors	22,622 0 22,622 200 Req'd BOPE	2	a-B 2.66	a-C 1.87	384,574 0 384,574 overlap. Min Dis Hole-Cpl 0.91 Weigh 0
5 1/2 Segment "A" "B" Hole Size 7 7/8 class 'C' tail cm #N/A 0 Segment "A"	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35 #/ft	Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548 Grade #/g mud, 30min Sfc Csg Test	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443 5 1/2	btc ided to achieve a top of Min Cu Ft 1918 Coupling 0.00	2.62 11555 1 Stage % Excess 27	Collapse 1.12 ft from su Drilling Mud Wt 10.50 Design	Burst 1.59 Totals: urface or a Calc MASP Factors Burst Totals:	22,622 0 22,622 200 Req'd BOPE	2	a-B 2.66	a-C 1.87 sing> a-C	384,57 0 384,57 overlap. Min Dis Hole-Cpi 0.91 Weigh 0 0
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35 #/ft	Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548 Grade #/g mud, 30min Sfc Csg Test	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443 5 1/2	btc ided to achieve a top of Min Cu Ft 1918 Coupling 0.00 0.00	2.62 11555 1 Stage % Excess 27 #N/A	Collapse 1.12 It from su Drilling Mud Wt 10.50 <u>Design</u> Collapse	Burst 1.59 Totals: urface or a Calc MASP Factors Burst Totals:	22,622 0 22,622 200 Req'd BOPE	2	a-B 2.66	a-C 1.87 sing> a-C	384,57 0 384,57 overlap. Min Dis Hole-Cp 0.91 Weigh 0 0 0 0 0 0 0 0 0 0 0
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail on #N/A 0 Segment "A" "B"	#/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 1548 Grade #/g mud, 30min Sfc Csg Test Cmt vol c	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443 5 1/2 psig: alc below includes	btc ided to achieve a top of Min Cu Ft 1918 Coupling 0.00 0.00 this csg, TOC intended	2.62 11555 1 Stage % Excess 27 #N/A #N/A	Collapse 1.12 ft from su Drilling Mud Wt 10.50 <u>Design i</u> Collapse ft from su	Burst 1.59 Totals: urface or a Calc MASP Factors Burst Totals: urface or a	22,622 0 22,622 200 Req'd BOPE Length 0 0 0 #N/A	2	a-B 2.66	a-C 1.87 sing> a-C	384,57 0 384,57 overlap. Min Dis Hole-Cpl 0.91 Weigh 0 0 0 0 overlap. Min Dis
5 1/2 Segment "A" "B" Hole Size 7 7/8 Class 'C' tail or #N/A 0 Segment "A" "B" Hole	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4# Annular	Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548 Grade #/g mud, 30min Sfc Csg Test Cmt vol c 1 Stage	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443 5 1/2 psig: alc below includes 1 Stage	btc ided to achieve a top of Min Cu Ft 1918 Coupling 0.00 0.00 this csg, TOC intended Min	2.62 11555 1 Stage % Excess 27 #N/A #N/A 1 Stage	Collapse 1.12 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	Burst 1.59 Totals: urface or a Calc MASP Factors Burst Totals: urface or a Calc	22,622 0 22,622 200 Req'd BOPE Length 0 0 0 0 #N/A Req'd	2	a-B 2.66	a-C 1.87 sing> a-C	384,57 0 384,57 overlap. Min Dis Hole-Cpl 0.91 Weigh 0 0 0 0 0 0 0 0 0 0 0 0
5 1/2 Segment "A" "B" Hole Size 7 7/8 class 'C' tail or #N/A 0 Segment "A" "B" Hole Size	#/ft 17.00 w/8.4# Annular Volume 0.1733 nt yld > 1.35 #/ft w/8.4# Annular	Grade #/g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1548 Grade #/g mud, 30min Sfc Csg Test Cmt vol c 1 Stage Cmt Sx	p 110 psig: 2,701 volume(s) are inter 1 Stage CuFt Cmt 2443 5 1/2 psig: alc below includes 1 Stage CuFt Cmt	btc ided to achieve a top of Min Cu Ft 1918 Coupling 0.00 0.00 0.00 this csg, TOC intended Min Cu Ft 0	2.62 11555 1 Stage % Excess 27 #N/A 1 Stage % Excess	Collapse 1.12 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	Burst 1.59 Totals: urface or a Calc MASP Factors Burst Totals: urface or a Calc	22,622 0 22,622 200 Req'd BOPE Length 0 0 0 0 #N/A Req'd	2	a-B 2.66	a-C 1.87 sing> a-C	384,57 0 384,57 overlap. Min Dis Hole-Cpl 0.91 Weigh 0 0 0 0 overlap. Min Dis

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	Devon Energy Production Company LP NMNM113969
	Section 2, T.23 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Serpentine 2-35 State Fed Com 27H
SURFACE HOLE FOOTAGE:	389'/S & 1308'/E
BOTTOM HOLE FOOTAGE	20'/N & 330'/E
ATS/API ID:	
Sundry ID:	2674026

COA

H2S	C Yes	C No	
Potash	🖸 None	C Secretary	C R-111-P
Cave/Karst Potential	🖸 Low	C Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	🖸 None	🖸 Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	🖸 Both
Wellhead Variance	Diverter		
Other	□4 String	Capitan Reef	□WIPP
Other	Fluid Filled	🗖 Pilot Hole	🗖 Open Annulus
Cementing	Cement Squeeze	EchoMeter	
Special Requirements	□ Water Disposal	COM	🗖 Unit
Special Requirements	Break Testing	🗆 Offline	
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 1150 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 $\underline{8}$ <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:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. <u>Operator must run a CBL from TD of the 8-5/8" casing to surface.</u> <u>Submit results to the BLM.</u>

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

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 **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 **5000 (5M)** psi.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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 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.
- 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 7/7/2022

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	128075		
	Action Type:		
	[C-103] NOI Change of Plans (C-103A)		

CONDITIONS

Created Condition Condition By Date 8/2/2022 pkautz None

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Action 128075