Submit 1 Copy To Appropriate District Office	State of Energy, Minerals	New Mexico	, "		Řevi	Form C-103 sed August 1, 2011
<u>District 1</u> - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Ellergy, withcrais	gand-ryaturar i	coodices	WELL API	NO	
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSER'			5. Indicate	3001 Type of Lease	545379
District III - (505) 334-6178 1000 Rio Brazos Rd., Aztæ, NM 87410		h St. Francis e, NM 8750		STA	TE 🔼 I	FEE .
<u>District IV</u> - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa II	e, mivi.a750.	;	6. State Of	l & Gas Lease	NO:
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPE DIFFERENT RESERVOIR. USE "APPL	TICES AND REPORTS OF SALE TO DEFINE TO DEFINE TO THE TOTAL OR TO DEFINE THE TOTAL OR TO DEFINE THE TOTAL OR T	EPEN:OR PLU <b>A</b> S	ATIKSIJA DISTI	VATESEN ICT	ame or Unit Ag	
PROPOSALS)	Gas Well  Other	N	MAR 2 1 20	98. Well No		
2 Name of Operator	on Energy Production Com	pany, L.P.	@B@	9. OGRID	Number 6137	7
3. Address of Operator 333	West Sheridan, Oklahoma	City, OK 73102	RECEIVED	1	ame or Wildcat	
4. Well Location	330 feet from the	South	iina and"	1629 f	ect from the	West line
Unit Letter N Section 3	<del></del>	23S Range	line and 31E	NMPM	eet nom the	
THE STREET, ST	11. Elevation (Show w		B, RT, GR, etc.		Establish Control of the Control of	Turki.
**************************************	SSE		, and annual, secondary, the since the			
	Appropriate Box to I	ndicate Natu	•			
NOTICE OF I	NTENTION TO:  PLUG AND ABANDO	NE FET DE	SUB EMEDIAL WOR		T REPORT	OF: ING CASING □
TEMPORARILY ABANDON [		** · · · · · · · · · · · · · · · · · ·	OMMENCE DR			
PULL OR ALTER CASING	The second contract to		ASING/CEMEN	TJOB		
DOWNHOLE COMMINGLE [	l,					
OTHER:	* 1. (151) . A. (151)		THER:			47
13. Describe proposed or con of starting any proposed y proposed completion or re	vork). SEE RULE 19.15.	ly state all perti 7.14 NMAC. F	nent details, an or Multiple Co	d give perting impletions: A	ent dates, includant Attach wellbore	ding estimated date diagram of
Devon Energy Production Co., L.P. (De APD approved on 10/30/2018.	von) respectfully requests	to deepen the i	ntermediate cas	ing to 6000' f	rom the origina	l approved 4593',
Please see attached revised drilling pla	ins.					
I hereby certify that the information	n above is true and compl	ete to the best	of my knowledg	ge and belief.		<del> </del>
SIGNATURE CENTRY HON		, , , , , , , , , , , , , , , , , , , ,			DATE 3	/21/2019
Type or print name Jenny Harms For State Use Only	E-	mail address:	Jenny.Harms@	dvn.com	PHONE:	405-552-6560
APPROVED BY Saymon	LA John Til	THE GIE	20/05:59	1	DATE	7-21-19
Conditions of Approval (if any):		<u>, , , , , , , , , , , , , , , , , , , </u>				<u> </u>

### 1. Geologic Formations

TVD of target	10550	Pilot hole depth	N/A
MD at TD:	15526	Deepest expected fresh water:	

#### Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	. 811	· · · · · · · · · · · · · · · · · · ·	
Salado	1146		
Base of Salt	4445		
Delaware	4506		
L Brushy Canyon	8056		
Bone Spring	8386		
Leonard 'A'	8486		
Leonard 'B'	8971		
Leonard 'C'	9136		
2nd BSPG Lime	ʻ 9871		
2nd BSPG Sand	10036 r		
L 2nd BSPG Sand	10536		
Landing Point	10550		
		·	

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

#### 2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	
Hote Size	From	То	Cag. Olze	(PPF)	Grade	Conn.	
17.5"	0	836	13.375"	48	H-40	STC	
12.25"	0	, 6000	9.625"	40	J-55	BTC	
8.75"	0	TD	5.5"	17	P-110	BTC	
В	LM Minimu	ım Safety Fac	tor	Collapse: 1.125	Burst: 1.00	Tension: 1.6 Dry 1.8 Wet	

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- Variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing. No losses are expected in subsequent hole section.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the intermediate and production casing strings if drilling conditions dictate

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program (3-String Primary Design)

Casing		n (3-String P	Wt.	Yld	Slurry Description
Casing	# 3 <b>KS</b>	100	(lb/gal)	(ft3/sack)	Sturry Description
Surface	873	Surf	13.2	1.33	Lead: Class C Cement + additives
14	1095	Surf	9	1.94	Lead: Class C Cement + additives
Int	196	500' above shoe	13.2	1.33	Tail: Class H / C + additives
	560	Surf	9	1.94	Stage 1 Lead: Class C Cement + additives
Int 1 Two Stage (optional)	196	500' above shoe	13.2	1.33	Stage 1 Tail: Class H / C + additives
w/ DV @ ~4500	570	Surf	9	1.94	Stage 2 Lead: Class C Cement + additives
	196	500' above DV	13.2	1.33	Stage 2 Tail: Class H / C + additives
	As Needed	Surf	13.2	1.33	Squeeze Lead: Class C Cement + additives
Int 1 Intermediate Squeeze	1095	Surf	9	1.94	Lead: Class C Cement + additives
Oqueeze	196	500' above shoe	13.2	1.33	Tail: Class H / C + additives
	351	500' tieback	9	3.569	Lead: Class H / C + additives
Production	970	КОР	13.2	1.46	Tail: Class H / C + additives

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	100%
Intermediate	50%
Production	10%

4. Pressure Control Equipment

Residence Control Equipment							
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:		
			Annular	X	50% of rated working pressure		
Int 1	13-5/8"	514	Blind Ran	1			
Int 1	13-3/6	5M	Pipe Ram	1	5M		
			Double Ra	m X	SIVI		
,			Other*		·		
			Annular	X	50% of rated working pressure		
			Blind Ran	n			
Production	13-5/8"	5M	Pipe Ram	1			
			Double Ra	m X	5M		
			Other *				
		ļ	Annular		·		
			Blind Ran	n			
			Pipe Ram	1			
			Double Ra				
			Other *				

5. Mud Program

Interval	Type	Weight (ppg)	Vis	Water Loss
Surface	FW	8.5 – 9.0	28-34	N/C
Intermediate	Brine	10 – 10.5	28-34	N/C
Production	WBM	8.5 - 9.0	28-34	N/C

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

377 4 211 1 1 2 2 41 1 2 6 6 7 10	DVIDID VVI 114 '
What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
what will be abea to mointer the least of gain of mala.	1 177 desert 1 ibaar 177 erinter 11.5

### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs
	run will be in the Completion Report and submitted 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

Addit	ional logs planned	Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD

### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4937 psi
Abnormal Temperature	No

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

Hydrogen 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. H2S is present

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 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 the 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.

Atta	achments
<u>X</u>	Directional Plan
	Other describe