Submit 1 Copy To Appropriate District	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240	chergy, whiterais and Natural Resources	WELL API NO.
611 5. Filst St., Altesia, NW 66210	OIL CONSERVATION DIVISION	30-025-43316 5. Indicate Type of Lease
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE X FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
SUNDRY NOTICES A	ND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION	O DRILL OR TO DEEPEN OR PLUG BACK TO A FOR PERMIT" (FORM C-101) FOR SUCH	Thistle Unit
PROPOSALS.) 1. Type of Well: Oil Well K Gas W	/ell 🗌 Other	8. Well Number 115H
2. Name of Operator Devon Energy Pr	roduction Co. LP	9. OGRID Number 6137
3. Address of Operator		10. Pool name or Wildcat
	n Ave OKC, OK 73102	Triple X; Bone Spring (59900)
4. Well Location Unit Letter B : 335	feet from the North line and	1810 feet from the East line
Unit Letter B : 335 Section 22	feet from the <u>North</u> line and <u>Township 23S</u> Range 33E	NMPM Lea County
	Elevation (Show whether DR, RKB, RT, GR, etc	
	3715'	
12. Check Approp	priate Box to Indicate Nature of Notice	e, Report or Other Data
NOTICE OF INTEN	TION TO: SUI	BSEQUENT REPORT OF:
	G AND ABANDON	
	NGE PLANS X COMMENCE DF	
CLOSED-LOOP SYSTEM		
OTHER: 13. Describe proposed or completed o	perations. (Clearly state all pertinent details, a	nd give pertinent dates, including estimated date
of starting any proposed work). S	EE RULE 19.15.7.14 NMAC. For Multiple Co	
proposed completion or recomplet		
Devon Energy respectfully	y requests the following changes to the	original APD:
Casing Program – Interm	adiata String	
0 0	string of J-55/HCK-55 to full string of	I-55
change nom opni		,
Please see attached revised	d Drilling Plan	
Spud Date:	Rig Release Date:	
I hereby certify that the information above	is true and complete to the best of my knowled	lge and belief.
	0	
SIGNATURE KIDULIA DU	TITLE Regulatory Analyst	DATE <u>12/4/2017</u>
Type or print name <u>Rebecca Deal</u>	E-mail address: <u>rebecca.deal</u>	@dvn.com PHONE: 405-228-8429
For State Use Only	Petroleum E	ingineer in / //
APPROVED BY:	TITLE Petroleum E	DATE 2/18/17
Conditions of Approval (If any):		

# 1. Geologic Formations

TVD of target	9,774'	Pilot hole depth	N/A
MD at TD:	17,109'	Deepest expected fresh water:	

# Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1379		
Top of Salt	1889		
Base of Salt	4962		
Delaware	5233		
Lower Brushy	8890		
1st BSPG Lime	9144		
Leonard A	9336		
Leonard B	9679		
Leonard B Base	9789		
Leonard C	10026		

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

### 2. Casing Program

Hole Size	Casing Interval		Csg.	Weight	Grade	Conn.
	From	rom To Size (lbs)	(lbs)			
17.5"	0	1,430'	13.375"	48	H-40	STC
12.25"	0	5,330'	9.625"	40	J-55	LTC
8.75"	0	17,109'	5.5"	17	P-110	BTC
BLM Minin	num Safet	y Factor		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

	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?	

Casing	# Sks	Wt. lb/ gal	H <sub>2</sub> 0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8"	465.4	12.5	10.654	1.94	31 hr 40 mn	C + Adds
Surface	326.4	14.8	6.368	1.33	4 hr 48 mn	C + Adds
9-5/8"	919.4	12.5	10.654	1.94	31 hr 40 mn	35:65 Poz:C + Adds
Inter.	294.4	14.8	6.352	1.33	6 hr 48 mn	C + Adds
5-1/2"	461.7	10.5	15.442	3.569	19 hr 3 mn	C + Adds
Prod	1381.6	13.2	5.175	1.46	9 hr 6 mn	50:50 Poz:H + Adds

#### 3. Cementing Program

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess	
13-3/8" Surface	0'	25%	
9-5/8" Intermediate	0'	25%	
5-1/2" Production Casing	3,330'	10%	

#### 4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
IN	schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Тур	e	1	Tested to:							
			Annu	lar	X	50% of working pressure							
			Blind F	Ram									
12-1/4"	13-5/8"	3M	Pipe R	am		3M							
			Double	Ram	X	3171							
			Other*										
			Annu	lar	X	50% testing pressure							
				Blind F	Ram								
8-3/4"	13-5/8"	3M	Pipe Ram										
0-3/4	13-3/8	5111	5 511	JIVI	JIVI	5111	JIVI		1 <i>J</i> - <i>J</i> /0 <i>J</i> <sup>1</sup> VI	Double Ram		X	3M
			Other *										
			Annu	lar									
			Blind F	Ram									
			Pipe R	am									
			Double										
			Other										
			*										

\*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y Formation integrity test will be performed per Onshore Order #2.
 On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

	A variance is requested for the use of a flexible choke line from the BOP to Choke
Y	
ĭ	Manifold. See attached for specs and hydrostatic test chart.YAre anchors required by manufacturer?
V	
Y	A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.
	<ul> <li>Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.</li> <li>Wellhead will be installed by wellhead representatives.</li> <li>If the welding is performed by a third party, the wellhead representative will</li> </ul>
	monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
	<ul> <li>Wellhead representative will install the test plug for the initial BOP test.</li> <li>Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.</li> </ul>
	<ul> <li>If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.</li> </ul>
	• Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
	• Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.
	After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead.
	The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

### 5. Mud Program

Depth		Туре	Weight (ppg)	Viscosity	Water Loss
From	То		0		
0	1,430'	FW Gel	8.5-8.8	28-34	N/C
1,430'	5,330'	Saturated Brine	10.0-10.2	28-34	N/C
5,330'	17,109'	Cut Brine	8.5-8.7	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.

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.			
Х	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		

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

1

Condition	Specify what type and where?
BH Pressure at deepest TVD	4,422 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.

N H2S is present

Y H2S Plan attached

#### 8. Other facets of operation

Is this a walking operation? Yes Will be pre-setting casing? Yes

Attachments <u>x</u> Directional Plan <u>Other, describe</u>

> 7 Drilling Plan