Submit 1 Copy To Appropriate District Office	State of New M		Form C-103
<u>District I</u> – (575) 393-6161	Energy, Minerals and Nat	tural Resources	Revised July 18, 2013 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	OIL CONSERVATION	NDIVISION	30-025-43315
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Fra		5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460	Santa Fe, NM 8		STATE X FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM	,		o. State on & Gas Bease No.
87505 SUNDRY NOT	ICES AND REPORTS ON WELL	S	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO	OSALS TO DRILL OR TO DEEPEN OR P	LUG BACK TO A	
PROPOSALS.)	ICATION FOR PERMIT" (FORM C-101)	FOR SUCH	Thistle Unit
1. Type of Well: Oil Well K	Gas Well Other		8. Well Number 114H
2. Name of Operator Devon End	ergy Production Co. LP		9. OGRID Number 6137
3. Address of Operator	-07		10. Pool name or Wildcat
	heridan Ave OKC, OK 7310	2	Triple X; Bone Spring (59900)
4. Well Location Unit Letter C	335 feet from the North	line and	1700 feet from the West line
Unit Letter C :		line and Range 33E	1700 feet from the West line NMPM Lea County
Section 22	11. Elevation (Show whether D		
	3712'		
10 01 1		CNI	D Od . D
12. Check	Appropriate Box to Indicate	Nature of Notice,	Report or Other Data
	NTENTION TO:	The second secon	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	
TEMPORARILY ABANDON DULL OR ALTER CASING	CHANGE PLANS X MULTIPLE COMPL	CASING/CEMEN	
DOWNHOLE COMMINGLE		O/ ION IO/ O'EINEN	
CLOSED-LOOP SYSTEM		07/155	
OTHER:	nleted operations (Clearly state all	OTHER:	d give pertinent dates, including estimated date
of starting any proposed w	ork). SEE RULE 19.15.7.14 NMA	C. For Multiple Co.	mpletions: Attach wellbore diagram of
proposed completion or re-			
Devon Energy resp	ectfully requests the following	g changes to the o	riginal APD:
Casing Program – I			
Change from	n split string of J-55/HCK-55	to full string of J-	-55
Dlease see attached	revised Drilling Plan		
ricase see attached	revised Drining Fian		
C. ID.	p:- p-lr		
Spud Date:	Rig Release D	pate:	
I hereby certify that the information	above is true and complete to the	best of my knowledg	e and belief.
	\ 0		
SIGNATURE COLLUI	TITLE Reg	ulatory Analyst	DATE 12/4/2017
Type or print name Rebecca Dea	1 E-mail addre	ss: rebecca.deal@	dvn.com PHONE: 405-228-8429
For State Use Only	i Dinan addic	1cocca.acatw	ATTICOM TO SEE SEE STEE
ADDDOVED DV:	TITLE	Petroleum E	ngineer DATE /2/18/17
APPROVED BY: Conditions of Approved (if any):	IIILE		DATE 12/10/10/

1. Geologic Formations

TVD of target	9,765'	Pilot hole depth	N/A
MD at TD:	17,070'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1360		
Top of Salt	1870		
Base of Salt	4945		
Delaware	5216		
Lower Brushy	8900		
1st BSPG Lime	9118		
Leonard A	9319		
Leonard B	9669		
Leonard B Base	9770		
Leonard C	10003		

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

2. Casing Program

Hole Size	Casing Interval		Csg.	Weight	Grade	Conn.
	From	To	Size	(lbs)		
17.5"	0	1,410'	13.375"	48	H-40	STC
12.25"	0	5,320'	9.625"	40	J-55	LTC
8.75"	0	17,070	5.5"	17	P-110	BTC
BLM Minir	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

	YorN
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 rd 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 nd 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

Casing	# Sks	Wt. lb/ gal	H ₂ 0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8"	455.4	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"	916.7	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"	459.9	10.5	15.442	3.569	19 hr 3 mn	C + Adds
Prod	1380.6	13.2	5.175	1.46	9 hr 6 mn	50:50 Poz:H + Adds

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	3,320′	10%

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	1	Tested to:
			Annular	X	50% of working pressure
			Blind Ran	n	
12-1/4"	13-5/8"	3M	Pipe Ram	1	3M
			Double Ra	m x	3101
			Other*		
			Annular	X	50% testing pressure
		3-5/8" 3M	Blind Ran	n	
8-3/4"	12 5/9"		Pipe Ram		
0-3/4	13-3/6		Double Ram		3M
			Other *		
			Annular		
			Blind Ran	1	
			Pipe Ram		
			Double Rai		
			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 Manifold. See attached for specs and hydrostatic test chart.
 - Y Are anchors required by manufacturer?
- 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.

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.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- 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.
- 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.
- 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		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,410'	FW Gel	8.5-8.8	28-34	N/C
1,410'	5,320'	Saturated Brine	10.0-10.2	28-34	N/C
5,320'	17,070	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	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	Logging, 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					

Add	litional logs planned	Interval
Resistivity		Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4,418 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
x Directional Plan
___ Other, describe