Submit I Copy To Appropriate District Office		of New Me				Form C-103
<u>District I</u> – (575) 393-6161	Energy, Minera	als and Natu	ral Resources	AMELI A	DINO	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283				WELL A	PI NO. 30-02	25-43311
811 S. First St., Artesia, NM 88210	OIL CONSEI			5. Indica	te Type of Lea	
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410		uth St. Fran		SI	TATE X	FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa	Fe, NM 87	7505	6. State	Oil & Gas Lea	se No.
	ICES AND REPORTS	ON WELLS		7. Lease	Name or Unit	Agreement Name
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLI PROPOSALS.)					le Unit	
1. Type of Well: Oil Well	Gas Well Other				Number 110	
2. Name of Operator Devon Ene	ergy Production Co.	. LP		9. OGRI	D Number 61	.37
3. Address of Operator				10. Pool	name or Wild	cat
	neridan Ave OKC,	OK 73102		Trip	e X; Bone S	pring (59900)
4. Well Location	225			•		
	feet from the			1340	_feet from the	
Section 22	Township		nge 33E	NMPM	Lea Cou	inty
	11. Elevation (Show 37	whether DR,	RKB, RT, GR, etc.,)		
12. Check	Appropriate Box to	Indicate N	ature of Notice.	Report or	r Other Data	ı
				•		
	ITENTION TO:	ON [NT REPOR	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDO CHANGE PLANS	ON 🗆	REMEDIAL WOR		The state of the s	ERING CASING
PULL OR ALTER CASING	MULTIPLE COMPL		CASING/CEMEN		NS. C PAIN	
DOWNHOLE COMMINGLE	MOETH EE OOM E		O/IOIIIO/OEIVIEII	1 000		
CLOSED-LOOP SYSTEM						
OTHER:			OTHER:			
13. Describe proposed or comp						
of starting any proposed war proposed completion or reco		5.7.14 NMAC	. For Multiple Cor	mpletions:	Attach wellbo	re diagram of
Devon Energy respe	ectfully requests the	following	changes to the or	riginal Al	PD:	
Casing Program – I	ntermediate String					
0 0	Change from split string of J-55/HCK-55 to full string of J-55					
Please see attached	revised Drilling Plai	n				
Spud Date:	Rig	g Release Da	te:			
I hereby certify that the information above is true and complete to the best of my knowledge and belief.						
SIGNATURE REBULLA]	Deal TI	ITLE_Regul	atory Analyst		DATE_1	2/4/2017
Type or print name Rebecca Dea For State Use Only	E-	-mail address	: rebecca.deal@		PHONE:	405-228-8429
		TLE	Petroleum En	gine	DATE	12/18/17
APPROVED BY: TITLE DATE Conditions of Approval (if any):						

1. Geologic Formations

TVD of target	9,765'	Pilot hole depth	N/A
MD at TD:	17,195'	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	9115		
Leonard A	9317		
Leonard B	9667		
Leonard B Base	9765		
Leonard C	10005		

^{*}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	17,195	5.5"	17	P-110	BTC	
BLM Minimum Safety 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

with 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.		
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	H₂0 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"	460.2	10.5	15.442	3.569	19 hr 3 mn	C + Adds
Prod	1401.6	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	Т	ype	1	Tested to:		
			An	nular	X	50% of working pressure		
			Blin	d Ram				
12-1/4"	13-5/8"	3M	Pip	e Ram		3M		
			Doub	le Ram	X	3101		
			Other*					
			An	nular	X	50% testing pressure		
		3M	Blin	Blind Ram				
8-3/4"	13-5/8" 3M		-5/8" 3M	Pipe Ram				
0-3/4				SIVI	3101	13-3/6	3101	Double Ram
			Other *					
			An	nular				
			Blin	d Ram				
			Pip	e Ram				
				le Ram				
			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 packoff, 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	То				
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'	17,195	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.

varu	indes and formations will be provided to the BEW.	
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 Other, describe