Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resor	WELL ADINO
<u>District II</u> – (575) 748-1283	OIL CONSERVATION DIVISI	30-025-42563
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	STATE X FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		or state on to our 2000 7.0.
SUNDRY NOT	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG BACK T CATION FOR PERMIT" (FORM C-101) FOR SUCH	Pliny 28 33 State Com
PROPOSALS.) 1. Type of Well: Oil Well [X]	Gas Well Other	8. Well Number 1H
2. Name of Operator		9. OGRID Number
Devon Energy Production	Co., L.P.	6137
3. Address of Operator333 West Sheridan Ave, Okl	ahoma City, OK 73102	10. Pool name or Wildcat Midway, Bone Spring
4. Well Location	·	7- 1-0
Unit Letter E :		e and 425 feet from the W line
Section 28	Township 17S Range 37E	
	11. Elevation (Show whether DR, RKB, RT 3754	(, GR, etc.)
	-1	1
12. Check	Appropriate Box to Indicate Nature of	Notice, Report or Other Data
NOTICE OF IN	ITENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		DIAL WORK ALTERING CASING
TEMPORARILY ABANDON		ENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING DOWNHOLE COMMINGLE	MULTIPLE COMPL CASINO	G/CEMENT JOB
CLOSED-LOOP SYSTEM		
OTHER:	□ OTHER	
		details, and give pertinent dates, including estimated date ultiple Completions: Attach wellbore diagram of
proposed completion or rec		ample completions. Thus, we notice diagram of
- 6.11		
		ng string option to the drilling plan. Safety
factors and cement plans have	been updated.	•
Spud Date:	Rig Release Date:	
Spud Bute.	Indig Note and Date:	
		-
I hereby certify that the information	above is true and complete to the best of my	knowledge and belief.
Minis P.	zind Bir	5 1. 4 1 . 5/20/15
SIGNATURE WWW		Compliance Analyst DATE 5/20/15
Type or print name Tami Lair	d E-mail address:	laird@dvn.com PHONE: _405-228-2816
For State Use Only		Engineer DATE 05/26/15
APPROVED BY:	TITLE Petroleum F	Engineer DATE OS/26/16
Conditions of Approval (if any):		

In

1. Geologic Formations

30-025	42	563
	100	

TVD of target	9,580'	Pilot hole depth	n/a
MD at TD:	17,156'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/	Hazards*
	from KB	Target Zone?	
Rustler	2218	Barren	
Top of Salt	2344	Barren	
Base of Salt	5400	Barren	
Grayburg	5450	Oil	
Brushy Canyon	6464	Oil	
1st BSPG Lime	6779	Oil	
1st BSPG Sand	7911	Oil	
2nd BSPG Sand	8456	Oil	
3rd BSPG Lime	9311	Oil	
3rd BSPG Sand	9541	Oil	
Wolfcamp	9691	Oil	

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

2. Casing Program

7"x5.5" Tapered Option.

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)			Collapse	Burst	Tension
17.5"	0	2,300'	13.375"	61	J-55	BTC	1.47	2.45	4.33
12.25"	0	3,000	9.625"	36	J-55	BTC	1.27	1.18	2.06
12.25	3,000'	5,450'	9.625	40	HCK-55	BTC	1.32	1.98	3.44
8.75"	0	9,000'	7"	29	P-110	BTC	1.96	1.32	2.91
8.75	9,000'	17,156'	5.5"	17	P-110	BTC	1.61	1.29	2.37
·				BLM Min	imum Safet	ty Factor	1.125	1.10	1.6 Dry
									1.8 Wet

5.5" Long String Option with DVT.

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)			Collapse	Burst	Tension
17.5"	0	2,300'	13.375"	61	J-55	BTC	1.47	2.45	4.33
12.25"	0	3,000'	9.625"	36	J-55	BTC	1.27	1.18	2.06
12.25	3,000'	5,450'	9.625	40	HCK-55	BTC	1.32	1.98	3.44
8.75"	0	17,156'	5.5"	17	P-110	BTC	1.61	1.29	2.37
				BLM Min	imum Safet	ty Factor	1.125	1.10	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	Y
justification (loading assumptions, casing design criteria).	
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

	Cementing Program										
Casing	# Sks	Wt.	H ₂ 0	Yld	500#	Slurry Description					
		lb/	gal/sk	ft3/	Comp.						
		gal		sack	Strength						
					(hours)	·					
						Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC					
13-3/8"	1360	12.9	9.81	1.85	14	Bentonite + 5% BWOW Sodium Chloride + 0.125					
Surface						lbs/sack Poly-E-Flake					
	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake					
						Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC					
9-5/8"	1060	12.9	9.81	1.85	14	Bentonite + 5% BWOW Sodium Chloride + 0.125					
Inter.						lbs/sack Poly-E-Flake					
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake					
7 x 5-	230	10.4	16.9	3.17	16	Lead: Tuned Light ® + 0.125 lb/sk Pol-E-Flake					
1/2"						Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5%					
Combo	2140	14.5	5.31	1.2	25	bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC					
Prod.						HR-601 + 2% bwoc Bentonite					
						1st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) +					
	490	11.9	12.89	2.31	n/a	10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3%					
						BWOC HR-601 + 0.5lb/sk D-Air 5000					
E 1/2"	_					1st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) +					
5-1/2" Prod	2140	14.5	5.31	1.2	25	0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2%					
Two						BWOC HR-601 + 2% bwoc Bentonite					
Stage					D\	/ Tool = 5500ft					
Stage	20	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk					
	20		14.01	2.55		Pol-E-Flake					
	30	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E					
	30	14.0	0.52	1.55	O	Flake					

DV tool 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	тос	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
7 x 5-1/2" Production Casing	5250′	25%
5-1/2" Production Casing	1 St Stage = 5500ft / 2 nd Stage = 5250'	25%

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	T	Туре		Tested to:
			An	nular	x	50% of working pressure
			Bline	d Ram		
12-1/4"	13-5/8"	3M	Pipe	Pipe Ram Double Ram Other*		3M
			Doub			31 v1
			Other*			
			An	nular	x	50% testing pressure
			Bline	d Ram		
8-3/4"	13-5/8"	3M	Pipe	Ram		
0- <i>3/</i> 4	13-3/6	3171	Doub	le Ram	x	3M
			Other *		;	
			An	nular		50% testing pressure
			Blind Ram			
			Pipe Ram			
			Double 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 is being 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 (FMC Uni-head). 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 FMC's representatives.
- If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- FMC representative will install the test plug for the initial BOP test.
- FMC 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 FMC Uni-head 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 FMC Uni-head.

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 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.

See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss	
From	To					
0	2,300'	FW Gel	8.6-8.8	28-34	N/C	
2,300'	5,425'	Saturated Brine	10.0-10.2	28-34	N/C	
5,425'	17,156'	Cut Brine	8.5-9.3	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 fromTD to surface (horizontal well – vertical portion of hole). Stated		
Ì	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	4632 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions: 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.

, 414	and formations will be provided to the BEN.
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No. Will be pre-setting casing? No.

Attachments

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