Submit I Copy To Appropriate District Office	State of Ne		Form C-103				
District I - (575) 393-6161	Energy, Minerals and	l Natural Resources	Revised July 18, 2013 WELL API NO.				
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283			30-025-42465				
811 S. First St., Artesia, NM 88210	OIL CONSERVA		5. Indicate Type of Lease				
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St		STATE ⊠ FEE □				
<u>District IV</u> – (505) 476-3460	Santa Fe, N	IM 87505	6. State Oil & Gas Lease No.				
1220 S. St. Francis Dr., Santa Fe, NM 87505							
SUNDRY NOT (DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPL	SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH 7. Lease Name or Unit Agreement Name North Thistle 34 State Com						
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other		8. Well Number 1H				
2. Name of Operator			9. OGRID Number				
Devon Energy Production Co.	mpany, LP 40:	5-228-7203	6137				
3. Address of Operator			10. Pool name or Wildcat				
333 West. Sheridan Avenue			10, 10, 10, 10, 10, 10, 10, 10, 10, 10,				
Oklahoma City, OK 73102-5	5015 405-228-7203		Brinninstool; Bone Spring				
4. Well Location							
Lot NumberM :	330 feet from the _SOUT	H line and _435	feet from the _WESTline				
Section 34			IPM Lea County				
	11. Elevation (Show wheth 3565.6' GL	er DR, RKB, RT, GR, etc					
		The second secon					
12. Check	Appropriate Box to Indic	ate Nature of Notice	, Report or Other Data				
NOTICE OF I	NTENTION TO:	SUE	SSEQUENT REPORT OF:				
PERFORM REMEDIAL WORK							
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DF	RILLING OPNS. P AND A				
PULL OR ALTER CASING] CASING/CEMEN	IT JOB				
DOWNHOLE COMMINGLE							
CLOSED-LOOP SYSTEM	l	OTHER:					
OTHER: Casing Change/Remove	PH 🗵						
	ork). SEE RULE 19.15.7.14		nd give pertinent dates, including estimated date ompletions: Attach wellbore diagram of				
Devon Energy Production Cor	poration, L.P. respectfully requ	ests to make the followi	ng changes:				
Add 2-stage cement option		· · · · · · · · · · · · · · · · · · ·					
	r intermediate casing with J55	x HCK55 grades					
	tring for production section						
Update cement tablesRemove pilot hole							
• Remove phot note							
*Please reference revised drilli	ng plan attached						
•							
I hereby certify that the information	above is true and complete to	the best of my knowled	ge and belief.				
SIGNATURE Juna	7 Carl	TITLE: Regulatory A	<u>Analyst</u> DATE <u>8/28/2015</u>				
Type or print name. Trina C. C	ouch E-mail address:	trina.couch@dvn.com	PHONE: 405-228-7203				
For State Use Only	·// .		-/ -/				
APPROVED BY:	TITLE_	Petroleum Engine	DATE 08/28/19				
Conditions of Approval (if any):							

1. Geologic Formations

TVD of target	11,258'	Pilot hole depth	N/A
MD at TD:	15,671'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/	Hazards*
	from KB	Target Zone?	2.076
Rustler	1,101	Barren	
Top of Salt	1,691	Barren	
Base of Salt	5,008	Barren	
Delaware	5,265	Oil	
Cherry Canyon	5,991	Oil	
Brushy Canyon	7,271	Oil	
1 st Bone Spring Lime	8,933	Oil	
2 nd Bone Spring Sand	10,833	Oil	

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

2. Casing Program

Hole Size	e Casing	Înterval	Csg.	Weight	Grade	Conn	SF	SF Burst	SF
	From	To	Size	· (lbs)			Collapse		Tension
17.5"	0	1,400'	13.375"	48	H-40	STC	1.23	2.76	8.05
12.25" 12.25"	0 4,000'	4,000° 5,250°	9.625" 9.625"	40 40	J-55 HCK-55	BTC BTC	1.24 1.549	1.37 1.45	1.87 4.41
8.75"	0'	15,670'	5.5"	17	P-110	BTC	1.48	1.19	2.15
				BLM Min	imum Safet	y Factor	1.125	1.00	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	Y
the collapse pressure rating of the casing?	
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.	
	30
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?	
PRODUCTION OF THE PRODUCTION OF THE PROPERTY O	TORK BETTER !
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?	
	CESTS ALL
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?	
A LONG TO A MILITERIA DE LA CASA DE LA COMPANSA DE LA CASA DE LA C	THE REPORT OF THE
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing FSks Wt H;0 gal/sk ff3/ Comp. Strength Surface G80 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Stage Option G80 14.8 6.32 1.33 6 Tail: Class C Cement + 0.125 Ibs/sack Poly-E-Flake Lead: (65:35) Class C Cement + 0.125 Ibs/sack Poly-E-Flake Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Stage Option G80	3. Cemen		ogram			- Linium -				
13-3/8" 550 14.8 6.32 1.33 6 13 Class C Cement + 0.125 15/sack Poly-E-Flake	Casing	# Sks	₽,Ŵt.	H ₂ O.	Yld	500#	Slurry Description			
13-3/8" Surface			lb/	gal/sk-	ft3/	Comp.				
13-3/8" Surface			gal	41.24.04	sack	Strength				
Surface				4 3 34 34		(hours)				
Surface Surf	13.2/0"						Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC			
13-3/8" Surface Two Stage Option August Stage Option Stage Option Optio		680	12.9	9.81	1.85	14	Bentonite + 5% BWOW Sodium Chloride + 0.125			
13-3/8" Surface Two Stage Option Opt	Surrace						lbs/sack Poly-E-Flake			
Surface Two Stage Option Advanced	1	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake			
Surface Two Stage Option 330 14.8 6.32 1.33 6 Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake DV Tool = 300ft (or above depth of first losses) 400 14.8 6.32 1.33 6 Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake 9-5/8" 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 1100 12.9 9.81 1.85 1.85 1.85 1.85 1.85 1100 12.9 9.81 1.85 1.85 1.85 1.85 1.85 1.85 1100 12.9 9.81 1.85 1.85 1.85 1	42.2/0"					_	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC			
Two Stage Option 330	1	825	12.9	9.81	°1.85	14	Bentonite + 5% BWOW Sodium Chloride + 0.125			
Stage Option	and the second second			3-7		:	lbs/sack Poly-E-Flake			
Option A00		330	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake			
9-5/8" 1100 12.9 9.81 1.85 14 Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake	1 -									
9-5/8" 1100 12.9 9.81 1.85 14	Option	400	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake			
Inter.							Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC			
S-1/2" Producti on	9-5/8"	1100	12.9	9.81	1.85	14	Bentonite + 5% BWOW Sodium Chloride + 0.125			
S-1/2"	Inter.						lbs/sack Poly-E-Flake			
Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5%		430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake			
Producti on	E 1/2//	905	11.9	13.25	2.30	16	Lead: Tuned Light * + 0.125 lb/sk Pol-E-Flake			
1140							Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5%			
HR-601 + 2% bwoc Bentonite 1st Stage Lead: (65:35) Class H Cement: Poz (Fly Ash) + 520 12.5 10.86 1.96 30 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake 1st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite DV Tool = 5300ft 500 10.4 16.9 3.17 16 2nd Stage Lead: Tuned Light ® + 0.125 lb/sk Pol-E-Flake 2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-	,	1140	14.5	5.31	1.2	25				
5-1/2" Prod. Two Stage Option 5-1/2" 40 10.86 1.96 1.96 30 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake 1st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite DV Tool = 5300ft 40 10.4 16.9 3.17 16 2nd Stage Lead: Tuned Light ® + 0.125 lb/sk Pol-E-Flake 60 14.8 632 133 6 2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-	On		1 124				HR-601 + 2% bwoc Bentonite			
S-1/2" Prod. 1320							1st Stage Lead: (65:35) Class H Cement: Poz (Fly Ash) +			
1320		520	12.5	10.86	1.96	30	6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125			
Prod. Two Stage Option 1320 14.5 5.31 1.2 25 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite DV Tool = 5300ft 40 10.4 16.9 3.17 16 2nd Stage Lead: (50:30) Class H Cement: Poz (Fly Ash) + 0.5% bwoc Bentonite DV Tool = 5300ft 2nd Stage Lead: Tuned Light * + 0.125 lb/sk Pol-E-Flake 60 14.8 632 133 6 2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-	F 4 /5"				:		lbs/sack Poly-E-Flake			
Two Stage Option							1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) +			
Stage Option 40 10.4 16.9 3.17 16 2nd Stage Lead: Tuned Light * + 0.125 lb/sk Pol-E-Flake 60 14.8 6.32 1.33 6 2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-		1320	14.5	5.31	1.2	25	0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2%			
Option 40 10.4 16.9 3.17 16 2 nd Stage Lead: Tuned Light * + 0.125 lb/sk Pol-E-Flake 60 14.8 6.32 1.33 6 2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-			~				BWOC HR-601 + 2% bwoc Bentonite			
60 14.8 6.32 1.33 6 2nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-						D۱				
1 hill 1.14 x 1 h 3/ 1 1 3 3 1 h 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Option	40	10.4	16.9	3.17	16	2 nd Stage Lead: Tuned Light * + 0.125 lb/sk Pol-E-Flake			
1 hill 1.14 x 1 h 3/ 1 1 3 3 1 h 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ŀ	- CO	14.0	633	1 22	<u> </u>	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-			
I was a little of the control of the		 	14.8	0.32	1.33	Ь	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	TOC	% Excess
13-3/8" Surface	0'	100%
13-3/8" Surface – Two Stage Option	0′	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing	4750′	25%
5-1/2" Production Casing – Two Stage Option	1 st Stage = 5300' / 2 nd Stage = 4750'	25%

4. Pressure Control Equipment

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 ₃	ype		Tested to:
			Anr	nular	x	50% of working pressure
			Blind	l Ram		
12-1/4"	13-5/8"	3M	Pipe	Ram		3M
			Doub	le Ram	x _	5101
			Other*			
			Anr	nular	x	50% testing pressure
	13-5/8"	3M	Blind Ram			
8-3/4"			Pipe Ram			
0-3/ 4			Double Ram		x	3M
			Other *			5141
			Anr	nular	X	
			Blind Ram Pipe Ram			
			Double Ram		X	
			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

From	epth To	Туре	Weight (ppg)	Viscosity	Water Loss
0	1,400'	FW Gel	8.6-8.8	28-34	N/C
1,400'	5,250'	Saturated Brine	10.0-10.2	28-34	N/C
5,250'	15,670'	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

Log	ging, Coring and Testing.
X	Will run GR/CNL fromTD 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	itional logs planne	d 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	3005 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

	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 Other, describe