		OCD	Artesia	
B	UNITED STATES EPARTMENT OF THE IN UREAU OF LAND MANAG NOTICES AND REPOR is form for proposals to a II. Use form 3160-3 (APD)	EMENT TS ON WELLS	OMB	1 APPROVED NO. 1004-0135 S: July 31, 2010 or Tribe Name
SUBMIT IN TR	IPLICATE - Other instruct	ions on reverse side.	7. If Unit or CA/Ag	eement, Name and/or No.
i. Type of Well Soli Well 🗂 Gas Well 📑 Ot	8. Well Name and No NEW POTATO			
<ol> <li>Name of Operator DEVON ENERGY PRODUCT</li> </ol>	9. API Well No. 30-015-43169-	00-X1		
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 7310	2 .	3b. Phone No. (include area code Ph: 405-228-7203	) 10. Field and Pool, c CEDAR CANY	r Exploratory ON-BONE SPRING
4. Location of Well . (Footage, Sec., 7 Sec 11 T24S R29E SWNW 2			11. County or Parish EDDY COUNT	
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, REPORT, OR OTHE	ER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION	
<ul> <li>Notice of Intent</li> <li>Subsequent Report</li> <li>Final Abandonment Notice</li> <li>13. Describe Proposed or Completed Op If the proposal is to deepen directions Attach the Bond under which the work</li> </ul>	ally or recomplete horizontally, gi	ve subsurface locations and measure	<ul> <li>Production (Start/Resume)</li> <li>Reclamation</li> <li>Recomplete</li> <li>Temporarily Abandon</li> <li>Water Disposal</li> <li>g date of any proposed work and appropried and true vertical depths of all pertits.</li> </ul>	nent markers and zones
determined that the site is ready for fi Devon Energy Production Cor string weight from 40# to 36#. Please see attached drilling pl Thank you!	npany, L.P. respectfully req Safety factors have been u	puests to change the intermo pdated to reflect this chang	e. NM OIL C ARTES	ONSERVATION DIA DISTRICT 292015
		Accepted	for record, ICD 7/31/15	
14. I hereby certify that the foregoing is Comm Name(Printed/Typed) TRINA C C	Electronic Submission #306 For DEVON ENERGY itted to AFMSS for processir		o the Carlsbad 🥢 🥢	
Signature (Electronic S		Date 06/23/20		
Approved By onditions of approval, if any, are attached rtify that the applicant holds legal or equi nich would entitle the applicant to conduc the 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent st	Approval of this notice does not itable title to those rights in the su ct operations thereon.	t warrant or bject lease Office	BUFEAU OF L/ND MANAGEMIN CARLSBAD FIELD OFFICE	
** BLM REVI	SED ** BLM REVISED *	* BLM REVISED ** BLM	REVISED ** BLM REVISE	) **

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# 1. Geologic Formations

TVD of target	8,937'	Pilot hole depth	N/A ,
MD at TD:	16,646'	Deepest expected fresh water:	

Basin

Basm	Come Contraction and Contraction		
Formation	Depth (TVD)	Water/Mineral Bearing/	Hazards*
	from KB	Target Zone?	
Rustler	385	Water	. •
Top of Salt	1,526	Salt	
Base of Salt	2,910	Salt	
Delaware	3,110	Barren	
Bell Canyon	3,160	Oil/Gas	
Cherry Canyon	4,030	Oil/Gas	
Brushy Canyon	5,560	Oil/Gas	
Bone Spring	6,840	Oil/Gas	
1 <sup>st</sup> Bone Spring Sand	7,890	Oil/Gas	
2 <sup>nd</sup> Bone Spring Sand	8,710	Target Zone	
· · · · · · · · · · · · · · · · · · ·			:
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\*H2S, water flows, loss of circulation, abnormal pressures, etc.

Hole	Casing	, Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	To	Size	(lbš):	and the second second	A. S. S. S. S. S.	Collapse	Burst	Tension
17.5"	0	700'	13.375"	48	H-40	STC	2.26	5.28	9.58
12.25"	0	3,100'	9.625"	36	J55	LTC	1.25	3.00	4.33
8.75"	0	8,307'	7"	29	P110	BTC	2.14	2.81	2.43
8.75"	8,307'	16,647'	5.5"	17	P110	BTC	1.73	2.46	3.85
BLM M	inimum Sal	fety Factor	1.125	1	1.6 Dry				
					1.8 Wet				

## 2. Casing Program: 7" x 5.5" Combination Production Casing

## **Option: 5.5" Production Longstring Casing**

Hole Size		g Interval To		Weight (lbs)	Grade	Conn.	SF Côllapse	SF Burst	SF Tension
8.75"	0	16,647'	5.5"	17	P110	BTC	1.73	2.46	1.93
BLM M	inimum Sat	fety Factor	1.125	1	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
	<sup>1</sup> N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	C VERSENAND T LOUISAN
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?	
	A CALL & MARTIN A
Is well located in R-111-P and SOPA?	<u>N</u>
If yes, are the first three strings cemented to surface?	<u> </u>
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
RETERNATION CONTRACTOR DE PARA DE L'ALTRES DE LE CALORIS CALORIS CONTRACTORIS DE CONTRACTOR DE CALORIZACIÓN DE	
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?	
The well be ested in entities because where the period states and the period of the pe	
Is well located in critical Cave/Karst?	<u>N</u>
If yes, are there three strings cemented to surface?	}

## 3. Cementing Program

Casing	#·Sks	Wt. lb/ gal	H <sub>2</sub> 0 gal/sk	ft3/ sac =	500# Comp. Strength	Slurry Description
				<b>k</b>	(hours) t	
Surf.	770	14.8	6.32	1.3 3	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake
Inter. Single Stage	530	12.9	9.81	1.8 5	17	1 <sup>st</sup> Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
Optio	430	. 14.8	6.32	1.3 3	6	1 <sup>st</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	520	12.9	9.81	1.8 5	17	1 <sup>st</sup> Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
Inter. Two	·220	14.8	6.32	1.3 3	. 6	1 <sup>st</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Stage					D\	/ Tool = 750ft
Optio n	60	12.9	9.81	. 1.8 5	17	2 <sup>nd</sup> Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	120	14.8	6.32	1.3 3	6	2 <sup>nd</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	710	12.5	10.86	1.9 6	30	1 <sup>st</sup> Stage Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR- 601 + 0.125 lbs/sack Poly-E-Flake
5.5" Prod. Two	2270	14.5	5.31	1.2	25	1 <sup>st</sup> Stage Tail: (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
Stage					DV	Tool = 4000ft
Optio	120	11	14.81	2.5 5	22	2 <sup>nd</sup> stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
n	120	14.8	6.32	1.3 3	6	2 <sup>nd</sup> stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
7 x 5.5"	350	10.4	16.9	3.1 7	16	Lead: Tuned Light
Comb Prod.	2270	14.5	5.31	1.2	25	Tail: (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 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.

**Drilling Plan** 

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Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	75%
Intermediate Two Stage	$1^{\text{st}}$ Stage =750' / $2^{\text{nd}}$ Stage =0'	75%
5.5" Production Two Stage	1 <sup>st</sup> Stage =4000' / 2 <sup>nd</sup> Stage =2500'	25%
7 x 5.5" Comb. Prod.	2500'	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		Гуре		Tested <sup>*</sup> to:
	,		A	nnular	x	50% of working pressure
			Blii	nd Ram	ļ	
12-1/4"	13-5/8"	3M	Pip	e Ram		3M
			Dou	ble Ram	x	5101
			Other*			
				nnular	x	50% testing pressure
			Blir	nd Ram		
8-3/4"	13-5/8"	3M		e Ram		
0.5/1	15 5/0	5111	Dou	ole Ram	x	3M
			Other *			
			Annular			
			Blind Ram			
		l	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.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke 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.
	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.
	<ul> <li>Wellhead will be installed by FMC's representatives.</li> <li>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.</li> </ul>
	<ul> <li>FMC representative will install the test plug for the initial BOP test.</li> <li>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 5M, 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> <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</li> </ul>
	<ul> <li>conducted.</li> <li>Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.</li> <li>Devon will test the casing to 70% of burst or 1500 psi, whichever is greater, as per Onshore Order #2.</li> </ul>
1 2 2 2 2 2 0 1	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.
1   2   2   2   2   2   2   2   2   1   2   2   1   2   2   1   1   1   1   1   1   1   1   1   1	rating of 3M will be installed on the FMC Uni-head wellhead system and 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3 and 250 psi low test will cover testing requirements a maximum of 30 day Onshore Order #2. If the well is not complete within 30 days of this BOP

Drilling Plan

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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

D	epth	Туре	Weight (ppg)	Viscosity	Water Loss
From	То				
0	700'	FW Gel	8.4-9.0	28-34	N/C
700'	3,100'	Saturated Brine	10:0-10.2	28-34	N/C
3,010'	, 16,647'	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

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

#### 7. Drilling Conditions

**Drilling Plan** 

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Condition	Specify what type and where?
BH Pressure at deepest TVD	4022 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? No. Will be pre-setting casing? No.

Attachments

<u>X</u> Directional Plan Other, describe

Drilling Plan

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