Constitution Copy to Appropriate District 04:00 PM	State of New Mexico	Form C-103 ¹
Office <u>District I</u> – (575) 393-6161 Energy,	Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-025-48096
District II – (575) 748-1283 811 S. First St., Artesia, NM 88210 OIL CO	ONSERVATION DIVISION	5. Indicate Type of Lease
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	20 South St. Francis Dr. Santa Fe, NM 87505	STATE X FEE
<u>District IV</u> – (505) 476-3460	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505		
SUNDRY NOTICES AND REI		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL O DIFFERENT RESERVOIR. USE "APPLICATION FOR PER		Thistle Unit
PROPOSALS.)		8. Well Number 181H
1. Type of Well: Oil Well Gas Well Gas Well	Other	
2. Name of Operator Devon Energy Production	on Co. LP	9. OGRID Number 6137
3. Address of Operator		10. Pool name or Wildcat
333 W. Sheridan Ave	OKC, OK 73102	WC-025 G-09 S243310P; UWC (98135)
4. Well Location		
		1770 feet from the West line
	wiship 23S Range 33E	NMPM Lea County
11. Elevation	(Show whether DR, RKB, RT, GR, etc.) 3710.5')
	3710.3	
12. Check Appropriate F	Box to Indicate Nature of Notice,	Report or Other Data
		•
NOTICE OF INTENTION T		SEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND A TEMPORARILY ABANDON ☐ CHANGE PL		
PULL OR ALTER CASING MULTIPLE C		
DOWNHOLE COMMINGLE	_	_
CLOSED-LOOP SYSTEM		
OTHER: 13 Describe proposed or completed operation:	OTHER:	d give pertinent dates, including estimated date
of starting any proposed work). SEE RUL		
proposed completion or recompletion.	-	
Devon Energy Production Co., L	P respectfully requests to utilize a	pilot hole for logging and
	cording to the following procedur	
Drill pilot hole vertically to an appropriate to a propriate to the property of the prope	-	
 Run open hole evaluation operation 	ons – logs, whole core, & rotary side wall cor	es D. D. autinomanto
 Balanced cement plug set as follow 	ore Per BLM Onshore Order #2 and NMOCI vs:	D Requirements
 The BASE of plug 50 below the 8- The TOP of the plug 50 above the 	5/8" Intermediate Casing Shoe Wolfcamp TOP Marker	
 Wireline set CIBP at ~12,000' TV. 	D inside of 8-5/8" Casing	
 Run cased hole whipstock on top Normal curve/lateral operations w 	of CIBP vill resume after kicking off of whipstock	
•	2	
Please see attached revised Drilling Plan	1	
S. ID.	D's Dalace Date	
Spud Date:	Rig Release Date:	
I hereby certify that the information above is true ar	nd complete to the best of my knowledge	e and belief.
	, ,	
SIGNATURE REBULLA DEAL	TITLE Regulatory Analyst	DATE 12/28/2020
SIGNATURE CITCLE STATE	ITTLE_Regulatory Analyst	DATE_12/28/2020
Type or print name Rebecca Deal	E-mail address: rebecca.deal@	dvn.com PHONE: 405-228-8429
For State Use Only		
APPROVED BY:	TITLE	DATE 01/04/2020
APPROVED BY: Conditions of Approval (if any):	TITLE	DATEDATE

1. Geologic Formations

TVD of target	12480	Pilot hole depth	13,801 [']
MD at TD:	27970	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1476		
Salado	1900		
Delaware	5236		
Cherry Canyon	6126		
Brushy Canyon	7501		
1st BSPG Lime	9076		
Leonard A	9331		
Leonard B	9671		
Leonard B Base	9756		
Leonard C	10106		
2nd BSPG Lime	10486		
2nd BSPG Sand	10866		
3rd BSPG Lime	11406		
3rd BSPG Sand	11991		
Wolfcamp	12306		
LP @ 0' VS	12481		
PILOT HOLE TOPS:			
WFMP 200	12916		
WFMP 300	13166		
WFMP 400	13391		
Upper Penn Sands	13601		
TD	13801		

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

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight	Grade	Conn.
Hole Size	From	To	Csg. Size	(PPF)	Grade	com.
17.5"	0	1390	13.375"	48	H-40	STC
9.875''	0	12650	8.625''	32	P-110	BTC
7.875"	0	TD	5.5"	17	P-110	BTC
В	LM Minimu	m Safety Fact	or	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

3. Cementing Program (Primary Design)

5. Cemenun	. Cementing Program (Primary Design)						
Casing	# Sks	тос	Wt. (lb/gal)	H ₂ 0 (gal/sk)	Yld (ft3/sack)	Slurry Description	
Surface	1044	Surf	13.2	6.33	1.44	Lead: Class A/C Cement + additives	
Total	533	Surf	9	20.6	3.27	Lead: Class A/C Cement + additives	
Int 1	465	4000' above shoe	13.2	6.42	1.44	Tail: Class A/H/C + additives	
Int 1 Intermediate Squeeze	As Needed	Surf	14.8	4.67	1.33	Squeeze: Class A/H/C + additives	
Production	117	500' tieback	9	20.6	3.27	Lead: Class A/H/C + additives	
FIOUUCUOII	2118	KOP	13.2	5.31	1.44	Tail: Class A/H/C + additives	

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:	
			Ar	nular	X	50% of rated working pressure	
Int 1	13-5/8"	5M	Blin	d Ram	X		
IIIt I	13-3/6	J1 V1	Pip	e Ram		5M	
			Doul	ole Ram	X	JIVI	
			Other*				
			Ar	nular	X	50% of rated working pressure	
			Blin	d Ram	X		
Production	13-5/8"	13-5/8" 5M	5M	Pipe Ram			
			Double Ram		X	10M	
			Other *				
			Ar	nular			
			Blind Ram				
			Pipe Ram				
			Double Ram				
			Other *				

5. Mud Program

6. Depth		Tuno	Weight	Vis	Water Loss
From	To	Туре	(ppg)	V 15	water Loss
0	1390	FW	8.5 - 9.0	28-34	N/C
1390	12650	Brine	10 - 10.5	28-34	N/C
<mark>12650</mark>	13801	WBM	13 - 14	<mark>50-70</mark>	15
12005	TD	OBM	10-10.5	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 of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Loggi	ing, 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			
X	Coring? If yes, explain			
	Rotary Side Wall Cores will be taken in the intermediate. Whole Core will be taken in the Pilot			
	Hole.			

Additional logs planned		Interval	
X	Resistivity	Intermediate & Pilot Hole	
X	Density	Intermediate & Pilot Hole	
X	CBL	Production casing	
X	Mud log	Intermediate Shoe to TD	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6879 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.

*****	Will be provided to the Balvi.		
N	H2S is present		
Y	H2S Plan attached		

8. Other facets of operation

Is this a walking operation? Potentially

- 1. If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2. The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3. The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1. Spudder rig will move in and drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.
- 6. The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Att	achments
_ <u>X</u> _	Directional Plan
	Other, describe

Devon - Internal

9. Pilot Hole

Hole Size 7 7/8"			
From	То		
12,650 (Pilot Begin)	13,801 (Pilot end)		

- Pilot hole will be plugged back per NMOCD P&A requirements with a **cement plug**.
- Plug depths will be verified and tagged on the plug back.
- Devon will contact the NMOCD and give notice before performing any of the aforementioned procedures including the tagging of the cement plug.

PILOT HOLE ABDMNT:				
Slurry Top:	12,250			
Slurry Base:	12,700			
Slurry Weight:	15.6			
Cement Plug	450'			
Height:				
BP Set Depth	12,000			
WHIP	11,990-12,000			
WINDOW	11,990-12,000			

	TOC	Wt. (lb/gal)	H ₂ 0 (gal/sk)	Yld (ft3/sack)	Slurry Description
Abandonment Plug	12,250	15.6	5.24	1.18	 Lead: Class H Cement + Retarder - HR-601 - 0.1% BWOC Suspension Agent - SA- 1015 - 0.05% BWOC Fluid Loss Additive - Halad-322 - 0.5% BWOC

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 13186

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
	DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	6137	13186	C-103A

OCD Reviewer	Condition
pkautz	None