

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMNM0560289

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
BURTON FLAT DEEP UNIT 57H

2. Name of Operator

DEVON ENERGY PRODUCTION CO. LP

Contact: TRINA C COUCH

Email: trina.couch@devn.com

9. API Well No.

30-015-410829

3a. Address

DEVON ENERGY PRODUCTION CO. LP 333 WEST SHERRILL AVE, OKLAHOMA CITY, OK 73102-5015

3b. Phone No. (include area code)

781-255-2034

10. Field and Pool, or Exploratory  
ASALON; BONE SPRING, EAST

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 2 T21S R27E 1670FSL 50FWL

11. County or Parish, and State

EDDY COUNTY COUNTY, NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Company, L.P. respectfully requests to add a pilot hole to the subject well.

Please see Attachment:  
Drilling Plan

*Original Coats still stand.  
Pilot hole may need additional cement as  
excess calculates to -5%. Tag and note Top on  
Subsequent sundry.*

*U2Jade 8/21/13*  
Accepted for record  
NMOC

RECEIVED

AUG 21 2013

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #216948 verified by the BLM Well Information System  
For DEVON ENERGY PRODUCTION CO. LP, sent to the Carlsbad  
Committed to AFMSS for processing by JOHNNY DICKERSON on 08/15/2013 ()

Name (Printed/Typed) TRINA C COUCH

Title REGULATORY ASSOCIATE

Signature (Electronic Submission)

Date 08/13/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Burton Flat Deep Unit 57H – 4 String APD DRILLING PLAN**

Sec 03-27S-31E

06.19.12 KKS

Revised 10-9-2012 (added Pilot hole)

see original API

**Casing Program**

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
26"	0 – 200 <sup>280'</sup>	20"	0 – 200	94#	BTC	J/K-55
17-1/2"	200 – 750	13-3/8"	0 – 750	48#	<del>STC</del>	H-40
12-1/4"	750 – 2,700	9-5/8"	0 – 2,700	40#	LTC	J-55
8-3/4"	2,700 – 5,800	5-1/2"	0 – 5,800	17#	LTC	HCP-110
8-3/4"	5,800 – 11,369	5-1/2"	5,800 – 11,369	17#	<del>BTC</del>	HCP-110

Max TVD in lateral: 6,566-ft

An 8-3/4" pilot hole will be drilled to 6,882 ft, and plugged back to KOP with approx 300 sxs Class H, 15.6 ppg, 1.18 cf/sk cement.

5993' KOP

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
20" 94# J-55 BTC	5.55	22.5	7.46
13-3/8" 48# H-40 STC	1.97	4.44	8.94
9-5/8" 40# J-55 LTC	2.03	3.13	4.81
5-1/2" 17# HCP-110 LTC	2.43	3.46	2.30
5-1/2" 17# HCP-110 BTC	2.75	3.92	6.96

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. There is no potential for the intermediate casing to be used as a production string.

**Mud Program:**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 200 <sup>280'</sup>	8.4 – 9.0	30 – 34	N/C	FW
200 – 750	9.8 – 10.0	28 – 32	N/C	Brine
750 – 2,700	8.4 – 9.0	28 – 30	N/C	FW
2,700 – 11,369	8.6 – 9.0	28 – 32	N/C-12	FW

**Pressure Control Equipment:**

The BOP system used to drill the 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 2M system prior to drilling out the casing shoe.

The BOP system used to drill the 12-1/4" and 8-3/4" holes will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. 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.

**Cementing Program (volumes based on at least 25% excess):**

## **20" Surface**

### **FLUID SPECIFICATIONS**

Spacer

20.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Cement Slurry	682	/ 1.35	= 510 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Displacement			56.8 bbls Mud @ 9 ppg

### **CEMENT PROPERTIES**

#### **SLURRY NO.1**

Slurry Weight (ppg)	14.80
Slurry Yield (cf/sack)	1.35
Amount of Mix Water (gps)	6.35
Estimated Pumping Time - 70 BC (HH:MM)	2:30

#### **COMPRESSIVE STRENGTH**

8 hrs @ 80 ° F (psi)	500
12 hrs @ 80 ° F (psi)	865
24 hrs @ 80 ° F (psi)	1475
72 hrs @ 80 ° F (psi)	2700

## **13-3/8" Intermediate**

### FLUID SPECIFICATIONS

Spacer

20.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Lead Slurry	725	/ 1.75	= 415 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water
Tail Slurry	450	/ 1.35	= 335 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Displacement			125.0 bbls Mud @ 9 ppg

### CEMENT PROPERTIES

	<u>SLURRY NO.1</u>	<u>SLURRY NO.2</u>
Slurry Weight (ppg)	13.50	14.80
Slurry Yield (cf/sack)	1.75	1.35
Amount of Mix Water (gps)	9.17	6.35
Estimated Pumping Time - 70 BC (HH:MM)	3:30	2:30
<u>COMPRESSIVE STRENGTH</u>		
8 hrs @ 80 ° F (psi)		500
12 hrs @ 80 ° F (psi)	400	865
15 hrs @ 80 ° F (psi)	500	
24 hrs @ 80 ° F (psi)	700	1475
72 hrs @ 80 ° F (psi)		2700

### 9-5/8" Intermediate

## FLUID SPECIFICATIONS

Spacer

10.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>
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### AMOUNT AND TYPE OF CEMENT

Lead Slurry	1212	/ 1.73
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= 700 sacks (60:40) Poz (Fly Ash):Class C Cement +  
5% bwow Sodium Chloride + 0.125 lbs/sack Cello  
Flake + 3 lbs/sack LCM-1 + 1% bwoc Sodium  
Metasilicate + 89.7% Fresh Water

Tail Slurry	413	/ 1.38
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= 300 sacks (60:40) Poz (Fly Ash):Class C Cement +  
5% bwow Sodium Chloride + 0.125 lbs/sack Cello  
Flake + 0.4% bwoc Sodium Metasilicate + 4%  
bwoc MPA-5 + 65.5% Fresh Water

Displacement

201.7 bbls Mud @ 10 ppg

## **CEMENT PROPERTIES**

<u>SLURRY NO.1</u>	<u>SLURRY NO.2</u>
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Slurry Weight (ppg)	12.60	13.80
Slurry Yield (cf/sack)	1.73	1.38
Amount of Mix Water (gps)	8.82	6.44
Estimated Pumping Time - 70 BC (HH:MM)	4:00	2:30

### COMPRESSIVE STRENGTH

12 hrs @ 90 ° F (psi)	270	
24 hrs @ 90 ° F (psi)	875	
72 hrs @ 90 ° F (psi)	1625	
7 hrs @ 112 ° F (psi)		500
24 hrs @ 112 ° F (psi)		1900
72 hrs @ 112 ° F (psi)		2700

**FLUID SPECIFICATIONS**

Spacer

50.0 bbls Fresh Water @ 8.34 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1st Lead Slurry	1418	/ 2.3	= 615 sacks (50:50) Poz (Fly Ash):Class H Cement + 0.5% bwoc FL-52 + 0.15% bwoc ASA-301 + 10% bwoc Bentonite + 0.3% bwoc R-21 + 130.5% Fresh Water
Lead Slurry	834	/ 2	= 415 sacks (35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 6% bwoc Bentonite + 105.4% Fresh Water
Tail Slurry	1827	/ 1.28	= 1430 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 57.3% Fresh Water

Displacement

271.0 bbls Displacement Fluid

**CEMENT PROPERTIES**

	SLURRY NO.1	SLURRY NO.2	SLURRY NO.3
Slurry Weight (ppg)	11.80	12.50	14.20
Slurry Yield (cf/sack)	2.30	2.00	1.28
Amount of Mix Water (gps)	13.15	10.99	5.77
Estimated Pumping Time - 70 BC (HH:MM)	5:00	5:00	4:30
Free Water (mls) @ ° F @ 90 ° Angle			0.0
Fluid Loss (cc/30min) at 1000 psi and ° F			50.0
<b>COMPRESSIVE STRENGTH</b>			
12 hrs @ 130 ° F (psi)	150		
24 hrs @ 130 ° F (psi)	250		
72 hrs @ 130 ° F (psi)	350		
12 hrs @ 132 ° F (psi)		175	250
24 hrs @ 132 ° F (psi)		250	1500
72 hrs @ 132 ° F (psi)		700	2000

**TOC for All Strings:**

Surface:	0 ft
Intermediate 1:	0 ft
Intermediate 2:	0 ft
Production:	600' ft (approx 200 ft above reef top)

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.