Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 11 2017
RECEIVED

5. Lease Serial No.
NMNM54112

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STRAWBERRY 7 FEDERAL 7

2. Name of Operator
DEVON ENERGY PRODUCTION COM LP
Contact: ERIN WORKMAN
E-Mail: Erin.workman@dvn.com

9. API Well No.
30-015-38485-00-S1

3a. Address
6488 SEVEN RIVERS HIGHWAY
ARTESIA, NM 88211

3b. Phone No. (include area code)
Ph: 405-552-7970

10. Field and Pool or Exploratory Area
HACKBERRY-BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 7 T19S R31E NENE 340FNL 340FEL

11. County or Parish, State
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☒ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Per Charles Nimmer, Devon Respectfully requests to submit procedure taken on the subject well.

Attachment: Procedures Attached!

BC 5-12-17
Accepted for record - NMOCD

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

Electronic Submission #371377 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COM LP, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/03/2017 (17DLM1247SE)

Name *(Printed/Typed)* ERIN WORKMAN — Title REGULATORY COMPLIANCE PROF.

Signature (Electronic Submission) — Date 03/28/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — CHARLES NIMMER — Title PETROLEUM ENGINEER — Date 05/05/2017

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 Carlsbad

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Strawberry 7 FED 7

WBS # MM-122651.60.WWO

Purpose: Test csg & repair possible leak. Vertical 2nd Bone Spring Producer

P.B.T.D. – 9,806 (Vertical well)

Latest Test: 10/12/16 – 0 gas x 0 oil x 202 water; Prior to suspected casing leak: 6/27/16 – 63 gas x 17 oil x 20 water.

Perforations: 7805'-7939' (1st Bone Spring) and 8808'-8818' (2nd Bone Spring)

Top of Cement: Reported at surface 7/1/11 (CBL)

Casing and Tubing Data:

PRODUCTION - Top Depth: 16.0 ftKB - Set Depth: 9,900.0 ftKB

Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizer Type	Scratchers
180.0	5 1/2		80	

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)	P Burst (psi)	P Collapse (psi)
102	Casing Joints	5 1/2		17.00	N-80	LT&C		16.0	4,416.8	7,740.0	6,280.0
1	DV Tool	5 1/2		17.00	N-80	LT&C		4,416.8	4,419.0	7,740.0	11,160.0
1	Casing Joints	5 1/2		17.00	N-80	LT&C		4,419.0	4,463.0	7,740.0	6,280.0
92	Casing Joints	5 1/2		17.00	N-80	LT&C		4,463.0	8,516.7	7,740.0	11,160.0
1	Marker Joint	5 1/2		17.00	N-80	LT&C		8,516.7	8,538.5	7,740.0	11,160.0
30	Casing Joints	5 1/2		17.00	N-80	LT&C		8,538.5	9,852.2	7,740.0	11,160.0
1	Float Collar	5 1/2		17.00	N-80	LT&C		9,852.2	9,854.7	7,740.0	11,160.0
1	Casing Joints	5 1/2		17.00	N-80	LT&C		9,854.7	9,898.8	7,740.0	11,160.0
1	Float Shoe	5 1/2		17.00	N-80	LT&C		9,898.8	9,900.0	7,740.0	11,160.0

[redacted]	Set Depth (ftKB)	[redacted]	Prod Run?
	8,876.0		No

Jts	Item Des	Icon	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
244	[redacted]		2 7/8		6.50	L-80	EUE		16.2	7,766.2
1	[redacted]		4 5/8						7,766.2	7,769.0
34	[redacted]		2 7/8		6.50	L-80	EUE		7,769.0	8,845.0
1	[redacted]		2 7/8						8,845.0	8,846.1
1	[redacted]		2 7/8		6.50	L-80	EUE		8,846.1	8,876.0

2-7/8" by 5-1/2" – 0.0152 bbls/ft. **5-1/2" – 0.1305 ft3/ft**

Rod Detail:

Rod Strings

Rod			1	8,646.0	8/24/2016	
WORKOVER - RESTORE PROD-ROD PUMP - 8/20/2016 06:00						Oil

Rod Components

Jts	Item Des	Type	OD (in)	Wt (lb/ft)	Grade	Rod Guide	Length (ft)	Top (ftKB)	Btm (ftKB)
1	Polished Rod	Polish Rod	1 1/2				30.00	-11.6	18.4
1	Pony rod	Rod	1	2.90	N-97		6.00	18.4	24.4
129	Sucker Rod	Rod	1	2.90	N-97		3,225.00	24.4	3,249.4
122	Sucker Rod	Rod	7/8	2.22	N-97		3,050.00	3,249.4	6,299.4
88	Sucker Rod	Rod	3/4	1.63	N-97		2,200.00	6,299.4	8,499.4
12	Sinker Bar	Rod	1 1/2	6.01			300.00	8,499.4	8,799.4
1	Pony Rod (Pump lift sub) Guided	Rod	1	2.90			4.00	8,799.4	8,803.4
1	33 K Shear Tool	Other	1				0.60	8,803.4	8,804.0
1	ROD PUMP	Rod Pump	2 1/2				24.00	8,804.0	8,828.0
1	Stanley Sand Filter (1.5x16)	Other	1 1/4				18.00	8,828.0	8,846.0

Safety: **All personnel will wear hard hats, safety glasses with side shields, and steel toed boots while on location. Assess wellhead working height for safety. If needed, use work platform or man-lift for fall protection. <u>H2S monitoring equipment is required on location.</u>**

Strawberry 7-7
Procedure:

1. **Hold tailgate safety meetings prior to R.U., each morning and before each operational change. Make any required regulatory notification(s).** MIRU WSU. Spot necessary tanks and temporary flow lines to tanks. Expose and bring up (if necessary) 5-1/2" x 8-5/8" csg valves to surface. Blow down tubing and casing pressure if any. Top kill well if necessary.

2. Remove PR and Stuffing Box. Install Rod rams. Unseat pump and T.O.H. with rods and pump.

3. ND wellhead. NU 5,000 psi BOPE, w/1 set of blind rams on bottom plus 1 set of 2-7/8" tbg rams on top. Test BOPE to Devon guidelines.

4. Unset TAC @ ~7,766'. T.O.H. with 2-7/8", L-80, 6.5#.

5. TIH and set 10K RBP @ 7750'.

6. TIH hydro testing with 5-1/2" RBP retrieving head, 5-1/2", 17#, Arrowset or equivalent (10K), 5-1/2", 17# Packer, 6'- 2-7/8",6.5#, L-80 tbg sub, Heavy duty SN (HDSN), and 2-7/8" tbg (Rabbit and strap tubing while TIH) to ~ 30' above RBP. Hydro test tubing to 5000 psi below the slips.

7. With 5-1/2" packer @ +/- 30' above RBP. Load and balance hole with ~ 165 bbls 2% KCL. and set PKR. Test RBP, PKR and 2-7/8" tubing to 2,000 psi @ surface.

8. Bleed off pressure. Move PKR uphole testing casing to isolate leak(s) to within ± 60' either side of good pipe (if possible). Pull PKR to at least 50' above upper most leak found and set PKR. Test annulus to 750 psi. Run an injection test with 2% KCL water down tubing at ½, 1, 2 and 3 BPM not to exceed 1,500 psi @ surface during pump-in testing. Leave 500 psi on annulus during injection test if possible. Check 5-1/2" by 8-5/8" annulus for blow/circ. during

injection test. Report testing results and pump-in rates to OKC Engineering for discussion of optimum cement and cementing method (retainer, open ended tbg or Packer).

9. Dump or place ~ 30' - 50' of sand on top of RBP prior to cementing.

10. RU. Cementing company and squeeze manifold. Load hole and pump tubing capacity of 2% KCL prior to cementing. Pump 10 bbls fresh water ahead. Mix and pump CEMENT (based on recommendation after injection test) followed by 10 bbls fresh water spacer then required 2% KCL to finish flushing cement. Top surface pressure limitation will be based on CEMENT density and quantity used. Once a cement squeeze or adequate job is believed to be put away, reverse circulate with 2% KCL to open top tank/pit with at least 1-1/2 times total tubing volume or more if necessary to clean (put sugar in tank if cement returns are noted at surface to retard). T.O.O.H. with 2-7/8" tubing if warranted. S.W.I. for duration recommended by Cement Service Company (obtain surface samples of mixed cement to view before drill out).

11. R.U. Rental Company pump/swivel. T.I.H. with gauge rock tooth bit (4-3/4"), x/o, 6 - 3-1/2" O.D. drill collars, x/o and 2-7/8" tubing to top of retainer (if used) or cement. N.U. stripper head. Drill out cement retainer (if used) and cement below retainer until bit falls free. Drop down and drill/wash out top 10' of sand. Circulate hole clean. Pull bit up ~ 30'. With bit in hole, retest casing to 750 psi at surface with 2% KCL for 30 minutes.

    a. If ok, bleed off pressure and proceed to Step 11.

    b. If not, report leak off rate to OKC Engineering for further recommendations and additional cement work (if warranted) prior to proceeding with Step 12.

12. T.O.O.H with 2-7/8" tubing, x/o, drill collars, x/o and gauge bit.

13. TIH with RBP retrieving head and 2-7/8" tubing to top sand above RBP that was set @ ~ 7,750'.

14. Reverse circ. out sand to retrieve RBP @ ~7,750'.

15. Latch & unset RBP @ ~ 7,750'. T.O.H. w/ 2-7/8", 6.5# tubing, retrieving head and RBP.

16. T.I.H. with Production tubing detail as before and set TAC. N.D. BOPE and N.U. wellhead.

17. Install rod rams. T.I.H. with rod design as before with 25-100-28 RHBC HVR pump. Space and seat pump and hook well back up for production. Install 1.25"x20' Dip Tube below pump.

18. R.D.M.O. WSU and release all rentals. Return well to production.