

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM100561
2. Name of Operator DEVON ENERGY PRODUCTION CO EMail: trina.couch@devn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-228-7203	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 7 T19S R31E NENE 0900FNL 0125FEL 32.679697 N Lat, 103.900526 W Lon		8. Well Name and No. STRAWBERRY 7 FED COM 11H
		9. API Well No. 30-015-42490-00-X1
		10. Field and Pool, or Exploratory HACKBERRY
		11. County or Parish, and State EDDY 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 recompleat 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 recompleat 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 change the intermediate casing setting depth for the subject well. Devon will run 9-5/8", 36 ppf, J-55, BTC to 3,375 ft MD instead of the approved APD depth of 3,200 ft MD to set in a competent formation.

Attached please see revised drilling plan, thank you

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 1 2015

RECEIVED

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

6/3/15 Accepted for record [signature]

14. I hereby certify that the foregoing is true and correct. Electronic Submission #302623 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad Committed to AFMSS for processing by ED FERNANDEZ on 05/22/2015 (15EF0029SE)	
Name (Printed/Typed) TRINA C COUCH	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/22/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ	Title PETROLEUM ENGINEER	Date 05/22/2015
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.

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

Sundry Request - Strawberry 7 Fed com 11H (API: 30-015-42490)**AAA 7-21-2014: Change Intermediate Casing Depth****Sundry Request:**

Devon Energy Production Company, L.P. respectfully requests to change the intermediate casing setting depth for the subject well. Devon will run 9-5/8", 36 ppf, J-55, BTC to 3,375 ft MD instead of the approved APD depth of 3,200 ft MD to set in a competent formation. Please find below the casing depth changes, casing design factors, and the cementing table which includes a 2-Stage Cementing option if experience loss of returns in the intermediate hole.

Casing Program Changes:

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
12-1/4"	630 - 3375	9-5/8"	0 - 3375	36#	LTC	J-55

Note: only new casing will be utilized

MAXIMUM LATERAL TVD 7,839

Design Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
9-5/8"	1.38	2.33	2.20

Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
9-5/8" Intermediate Single Stage	655	12.6	8.81	1.73	Lead	(60:40) Poz (Fly Ash):Prem Plus C + 0.005 lbs/sack Static Free + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.2% bwoc FL-52 + 0.005 gps FP-6L + 1% bwoc Sodium Metasilicate + 89.6% Fresh Water
	300	13.8	6.41	1.38	Tail	(60:40) Poz (Fly Ash):Prem Plus C + 0.005 lbs/sack Static Free + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.005 gps FP-6L + 0.25% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.2% Fresh Water
9-5/8" Intermediate 2-Stage Option	570	12.8	8.01	1.66	Lead	(60:40) Poz (Fly Ash):Prem Plus C + 0.005 lbs/sack Static Free + 5% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.25 lbs/sack Cello Flake + 5 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 0.005 gps FP-6L + 1.5% bwoc Sodium Metasilicate + 81.5% Fresh W
	250	13.8	6.40	1.38	Tail	(60:40) Poz (Fly Ash):Prem Plus C + 0.005 lbs/sack Static Free + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 0.1% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.1% Fresh Water
	DV Tool @ 680 ft					
	190	13.8	6.41	1.38	Slurry	(60:40) Poz (Fly Ash):Premium Plus C + 0.005 lbs/sack Static Free + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.2% Fresh Water
5-1/2" Production Casing 2- Stage	360	12.5	11.01	2.01	Stg 1 Lead	(35:65) Poz (Fly Ash):Premium Plus H + 0.005 lbs/sack Static Free + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.3% bwoc ASA-301 + 0.005 gps FP-6L + 6% bwoc Bentonite + 0.7% bwoc FL-52A + 105.5% Fresh Water
	1385	14.2	5.75	1.28	Stg 1 Tail	(50:50) Poz (Fly Ash):Premium Plus H + 0.005% bwoc Static Free + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.005 gps FP-6L + 0.3% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 57.1% Fresh Water
	DVT @ 4,500 ft					
	360	11.4	17.69	2.88	Stg 2 Lead	Premium Plus C + 0.005 lbs/sack Static Free + 1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.005 gps FP-6L + 3% bwoc Sodium Metasilicate + 0.3% bwoc FL-52A + 156.9% Fresh Water
	150	13.8	6.40	1.37	Stg 2 Tail	(60:40) Poz (Fly Ash):Premium Plus C + 0.005 lbs/sack Static Free + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.005 gps FP-6L + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.1% Fresh Water

TOC for all Strings:

Intermediate @ 0'

Production @ 0'

Notes:

- Cement volumes Intermediate 75%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data
- If lost circulation is encountered while drilling the intermediate and production wellbore, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

JUN 1 2015

CONDITIONS OF APPROVAL

SUNDRY dated 5/22/2015

RECEIVED

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMNM-100561
WELL NAME & NO.:	Strawberry 7 Fed Com 11H
SURFACE HOLE FOOTAGE:	0900' FNL & 0125' FEL
BOTTOM HOLE FOOTAGE:	0990' FNL & 0340' FWL
LOCATION:	Section 7, T. 19 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Original COA still stand with the following modification:

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

Original COA still stand with the following modification:

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, expect delays. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash

Capitan Reef

Possibility of water flows in the Artesia and Salado Groups.

Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

1. The 13-3/8 inch surface casing shall be set at approximately 630 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

If lost circulation (50% or greater) occurs at the Base of the 12-1/2" hole last 250 feet and/or at setting point of the 9-5/8" Contact the BLM ASAP

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing to be **set approx... 3,375'** and is:

Proposed Primary Cement Job as follows:

- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**

Proposed Contingency Cement Job if experience loss returns and hole condits warrant a two stage job as follows:

Operator has proposed DV tool at depth of 680', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a

minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage..

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation or approved top of cement on the next stage.

b. Second stage above DV tool:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Excess calculates to 5% - Additional cement SHALL be required.**

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Operator has proposed DV tool at depth of 4,500', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

c. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation or approved top of cement on the next stage.

d. Second stage above DV tool:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Excess calculates to 5% - Additional cement SHALL be required.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

EGF 052215