

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
ARTESIA DISTRICT
JUL 25 2014
ArtesiaFORM 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.

RECEIVED

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. NMLC061862
2. Name of Operator DEVON ENERGY PRODUCTION CO LP		6. If Indian, Allottee or Tribe Name
Contact: TRINA C COUCH Email: trina.couch@dvn.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-228-7203	8. Well Name and No. COTTON DRAW 14 FED COM 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T25S R31E NWNW 0330FNL 1150FWL 32.136755 N Lat, 103.753498 W Lon		9. API Well No. 30-015-42091-00-X1
		10. Field and Pool, or Exploratory PADUCA
		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	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 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 Co. L.P. 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 5000 (5M) psi.

* Wellhead will be installed by FMC's representatives.

* 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.

* FMC representative will install the test plug for the initial BOP test.

* 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

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**Accepted for record
AMOC
JUL 16 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #252310 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 07/15/2014 (14EF0073SE)	
Name (Printed/Typed) TRINA C COUCH	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 07/10/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ	Title PETROLEUM ENGINEER	Date 07/16/2014
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 ******SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Additional data for EC transaction #252310 that would not fit on the form

32. Additional remarks, continued

that time.

* 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 conducted.

* Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.

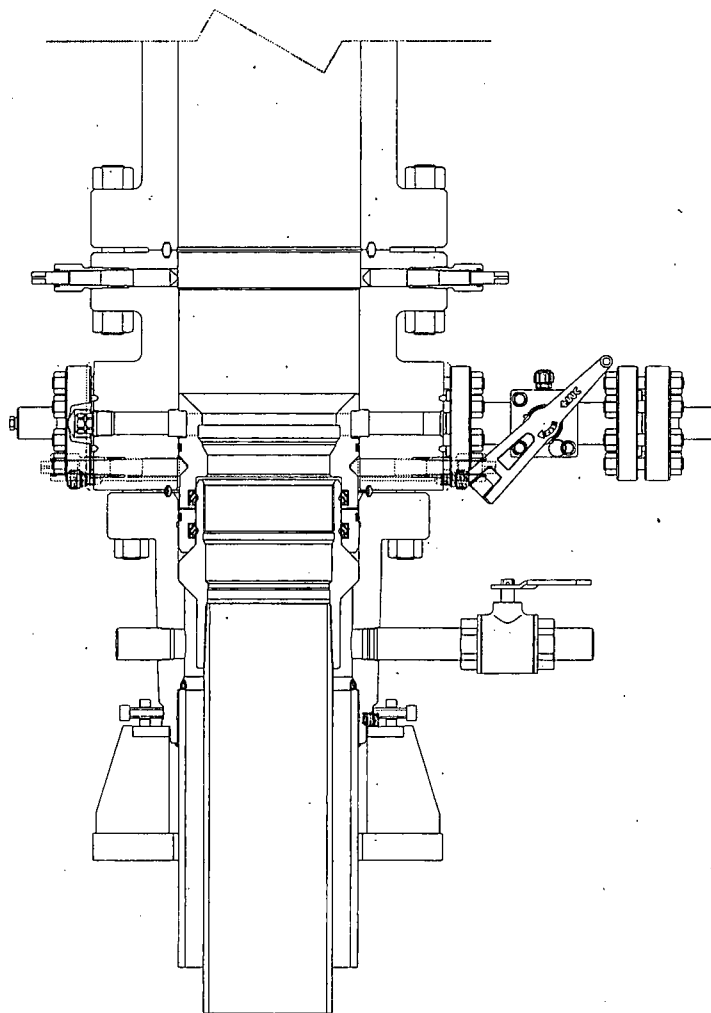
* Devon will test the casing to 70% of burst or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13 3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 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.

After running the 9 5/8" intermediate casing with a mandrel hanger, the 13 5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the FMC Uni-head. Please find attached the wellhead schematic and drilling plan.

DRAWING NUMBER
DM100161771-2B

PRIVATE AND CONFIDENTIAL THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FMC TECHNOLOGIES AND MAY NOT BE REPRODUCED, USED, DISCLOSED OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED BY RECIPIENT PURSUANT TO AGREEMENT TO THE FOREGOING AND MUST BE RETURNED UPON DEMAND.		REVISIONS A 05-08-13 B 1-22-14 C 5-13-14	DESCRIPTION SURFACE WELLHEAD LAYOUT UNIHEAD, UH-1,SOW, DEVON ENERGY, ODESSA	DRAWING BY K. VU 05-08-13 DRAFTING REVIEW Z. MARQUEZ 05-08-13 DESIGN REVIEW K. TAHA 05-08-13 APPROVED BY R. HAMILTON 05-08-13	FMC Technologies DRAWING NUMBER DM100161771-2B
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PRIMARY MODE

DEVON ENERGY

ARTESIA

S.E.N.M

13 3/8 X 9 5/8

QUOTE LAYOUT
F18648
REF: DM100161737
DM100151315

PRIVATE AND CONFIDENTIAL

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REVISIONS

A	05-08-13
B	1-22-14
C	5-13-14

DESCRIPTION

SURFACE WELLHEAD LAYOUT
UNIHEAD, UH-1, SOW,
DEVON ENERGY, ODESSA

DRAWN BY	
K. VU	05-08-13
DRAFTING REVIEW	
Z. MARQUEZ	05-08-13
DESIGN REVIEW	
K. TAHA	05-08-13
APPROVED BY	
R. HAMILTON	05-08-13

FMC Technologies

DRAWING NUMBER

DM100161771-2A

Cotton Draw 14 FED COM 1H- APD DRILLING PLAN
JSP 11.5.13

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17-1/2"	0 - 750	13-3/8"	0 - 750	48#	STC	H-40
12-1/4"	750 - 4,300	9-5/8"	0 - 3,400	36#	LTC	J-55
12-1/4"	750 - 4,300	9-5/8"	3,400 - 4,300	40#	LTC	J-55
8-3/4"	4,300 - 14,787	5-1/2"	0 - 14,787	17#	BTC	P-110

Pilot Hole Depth: 10,625 FT TVD

The goal of the surface casing is to protect the water zones, casing will be set a minimum of 25 feet into the Rustler Anhydrite. If Salt is encountered, casing will be set at least 25 feet above the salt.

Design Factors

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13 3/8" 48# H-40 STC	1.77	3.98	7.71
9 5/8" 36# J-55 LTC	1.15	1.66	1.97
9 5/8" 40# J-55 LTC	1.18	1.81	3.10
5-1/2" 17# HCP-110 BTC	1.76	2.19	2.26

Mud Program

Depth	Mud Wt.	Visc.	Fluid Loss	Type System
0 - 750	8.4 - 9.0	30 - 34	N/C	FW
750 - 4,300	9.8 - 10.0	28 - 32	N/C	Brine
4,300 - 14,787	8.5 - 9.0	28 - 32	N/C	FW

Pressure Control Equipment

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 5000 (5M) psi.

- Wellhead will be installed by FMC's representatives.
- 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.
- FMC representative will install the test plug for the initial BOP test.
- 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.
- 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 conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 70% of burst or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 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.

After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the FMC Uni-head. Please find attached the wellhead schematic.

The pipe rams will be operated and checked as per Onshore Order #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 **5,000 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.

Cotton Draw 14 Fed Com 1H

Cementing Program (cement volumes based on at least Surface 100% excess, Intermediate 75% excess, Pilot Hole Plug Back 10% excess and Production is 25% excess)

13-3/8" Surface

Tail: 940 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg, Yield of 1.33 cf/sk, Water Requirement of 6.32 gal/sk, Mix Water Volume is 142bbls

TOC @ surface

9-5/8" Intermediate

Lead: 870 sacks (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water, 12.9 ppg, Yield of 1.85 cf/sk, Water Requirement of 9.81 gal/sk, Mix Water Volume is 203bbls

TOC @ surface

Tail: 430 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg, Yield of 1.33 cf/sk, Water Requirement of 6.32 gal/sk, Mix Water Volume is 65bbls

Pilot Hole Plug Back

Plug Cement 390 sacks Class H Cement + 0.2% Halad-9 + 0.4% HR-601 + 60.5 % Fresh Water, 15.6 ppg, Yield of 1.19 cf/sk, Water Requirement of 5.39 gal/sk, Mix Water Volume is 50bbls.

TOC @ 9619ft

5-1/2" Production - Two Stage Option

Stage #1

Lead :620 sacks (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water, 12.5 ppg, Yield of 1.95 cf/sk, Water Requirement of 10.79 gal/sk, 159bbls of Mix Water.

TOC @ 6000ft

Tail: 1290 sacks (50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg, Yield of 1.22 cf/sk, Water Requirement of 5.38 gal/sk, 165bbls of Mix Water

DV Tool @ 6000ft

Stage #2

Lead :280 sacks (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water, 12.5 ppg, Yield of 1.95 cf/sk, Water Requirement of 10.79 gal/sk, 72bbls of Mix Water.

TOC @ 3700ft (or Minimum of 500' tieback into previous casing string)

Tail: 120 sacks Class C Cement + 0.2% BWOC HR-800 + 64.4% Fresh Water, 14.8 ppg, Yield of 1.33 cf/sk, Water Requirement of 6.34 gal/sk, 19bbls of Mix Water.

TOC for All Strings:

Surface: 870ft

0ft (870ft of fill of Tail)

Intermediate: 4200ft

0ft (3200ft of fill of Lead & 1000ft of fill of Tail)

Pilot Hole Plug Back: 10625ft

5980ft (916ft of Plug Cement)

Production: 14787ft - Two Stage

6000ft (1st Stage - 3819ft of fill of Lead & 4968ft of fill of Tail)

DV Tool at 6000ft

3700ft (2nd Stage - 1800ft of fill of Lead & 500ft of Tail) - Min 500' tie-back into 9 5/8"

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

CONDITIONS OF APPROVAL

Sundry dated 7/10/2014

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMLC-061862
WELL NAME & NO.:	Cotton Draw 14 Fed Com 1H
SURFACE HOLE FOOTAGE:	0330' FNL & 1150' FWL
BOTTOM HOLE FOOTAGE:	0330' FSL & 0660' FWL
LOCATION:	Section 14, T. 25 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Original COA still stand with the following drilling modifications:

- 1. Operator has proposed a multi-bowl wellhead assembly. 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 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
 - c. Manufacturer representative shall install the test plug for the initial BOP test.**
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.**
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

EGF 071514