

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**S**CD-ARTESIA

FORM APPROVED  
OMB No 1004-0137  
Expires March 31, 2007

**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  
NMLC 060613

6 If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

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

SEP 10 2008

2 Name of Operator  
Devon Energy Production Co., LP

**OCD-ARTESIA**

3a Address  
20 North Broadway  
OKC, OK 73102

3b Phone No (include area code)  
(405)-552-7802

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

8 Well Name and No  
Indian Draw 6 Fed Com 2

9 API Well No  
30-015-36294

10 Field and Pool or Exploratory Area  
Carlsbad; East Morrow

4 Location of Well (Footage, Sec, T., R., M, or Survey Description)  
SWNW 1330' FNL & 860' FWL  
Sec 6-T22S-R28E

11 Country 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			
<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 <u>APD Changes</u>
	<input checked="" 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 must 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 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.)

Devon Energy Production Co, LP respectfully advises a change from the initial APD to the following:

From:

9 5/8" 40# HCP-110 LT&C @ 5,755'  
5 1/2" 17# HCP-110 LTC @ 0 - 9,900'  
5 1/2" 20# HCP-110 LTC @ 9,900 - 12,400'

To:

9 5/8" 40# J-55 LT&C @ 2,750'  
5 1/2" 17# J-110 LT&C @ 12,300'

DV tool set @ 8500'. See attached cementing report.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Stephanie A Ysasaga

Title Sr. Staff Engineering Technician

Date 09/03/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

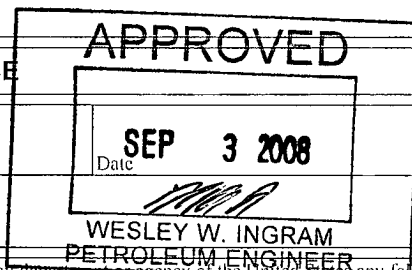
Title

Office

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.

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)





Proposal No: 215854627A

**Devon Energy Corp**  
**Indian Draw 6 Fed Com #2**

Carlsbad East Field  
Sec. 6-22S-28E  
Eddy County, New Mexico  
August 27, 2008

**Well Recommendation**

**Prepared for:**

Brent Evans  
Drilling Engineer  
Oklahoma City, Oklahoma  
Bus Phone: (405) 228-2435

**Prepared by:**

John Parks  
Region Technical Rep.  
Oklahoma City, Oklahoma  
Bus Phone: (405) 228-4302



**Service Point:**

Artesia  
Bus Phone: (505) 746-3140  
Fax: (505) 746-2293

**Service Representatives:**

Larry Johnson  
Senior Sales Rep  
Artesia, New Mexico

**Operator Name:** Devon Energy Corp  
**Well Name:** Indian Draw 6 Fed Com #2  
**Job Description:** Intermediate Casing  
**Date:** August 27, 2008



**Proposal No:** 215854627A

## JOB AT A GLANCE

Depth (TVD)	2,750 ft
Depth (MD)	2,750 ft
Hole Size	12.25 in
Casing Size/Weight :	9 5/8 in, 40 lbs/ft
Pump Via	9 5/8" O.D. (8.835" I.D) 40
Total Mix Water Required	9,180 gals
<b>Spacer</b>	
Fresh Water	20 bbls
Density	8.3 ppg
<b>Lead Slurry</b>	
35:65:6 Poz:Class C	725 sacks
Density	12.7 ppg
Yield	1.95 cf/sack
<b>Tail Slurry</b>	
60:40 Poz:Class C (MPA)	300 sacks
Density	13.8 ppg
Yield	1.38 cf/sack
<b>Displacement</b>	
Mud	205 bbls
Density	10.0 ppg

**Operator Name:** Devon Energy Corp  
**Well Name:** Indian Draw 6 Fed Com #2  
**Job Description:** Intermediate Casing  
**Date:** August 27, 2008



**Proposal No:** 215854627A

## WELL DATA

### ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
12.615 CASING	410	410
12.250 HOLE	2,750	2,750

### SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
9.625	8.835	40	2,750	2,750

Float Collar set @ 2,710 ft  
 Mud Density 10.00 ppg  
 Est. Static Temp. 108 ° F  
 Est. Circ. Temp. 93 ° F

### VOLUME CALCULATIONS

410 ft	x	0.3627 cf/ft	with	0 % excess	=	148.7 cf
1,778 ft	x	0.3132 cf/ft	with	125 % excess	=	1253.2 cf
562 ft	x	0.3132 cf/ft	with	125 % excess	=	395.7 cf
40 ft	x	0.4257 cf/ft	with	0 % excess	=	17.0 cf (inside pipe)
<b>TOTAL SLURRY VOLUME</b>					=	1814.7 cf
					=	323 bbls

**Operator Name:** Devon Energy Corp  
**Well Name:** Indian Draw 6 Fed Com #2  
**Job Description:** Intermediate Casing  
**Date:** August 27, 2008



**Proposal No:** 215854627A

## 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	1402	/ 1.95	= 725 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 5 lbs/sack LCM-1 + 6% bwoc Bentonite + 95.8% Fresh Water
Tail Slurry	413	/ 1.38	= 300 sacks (60:40) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.5% Fresh Water

Displacement 205.5 bbls Mud @ 10 ppg

## **CEMENT PROPERTIES**

	<b>SLURRY NO. 1</b>	<b>SLURRY NO. 2</b>
Slurry Weight (ppg)	12.70	13.80
Slurry Yield (cf/sack)	1.95	1.38
Amount of Mix Water (gps)	10.00	6.44
Estimated Pumping Time - 70 BC (HH:MM)	4:00	3:00
<b>COMPRESSIVE STRENGTH</b>		
12 hrs @ 100 ° F (psi)	325	
17 hrs @ 100 ° F (psi)	500	
24 hrs @ 100 ° F (psi)	630	
8 hrs @ 108 ° F (psi)		500
12 hrs @ 108 ° F (psi)		1550
24 hrs @ 108 ° F (psi)		2350

IF CIRCULATION IS LOST DURING DRILLING, PUMP 180 SX CLASS H + 10% A-10 (GYPSUM) + 1% CACL2 + 10 PPS GILSONITE + 1/4 PPS CELLO FLAKE. MIX CEMENT @ 14.6 PPG (6.16 GPS WATER) AND PUMP AHEAD OF THE LEAD CEMENT LISTED ABOVE.

**Operator Name:** Devon Energy Corp  
**Well Name:** Indian Draw 6 Fed Com #2  
**Job Description:** Long String  
**Date:** August 27, 2008



**Proposal No:** 215854627A

## **JOB AT A GLANCE**

Depth (TVD)	12,300 ft
Depth (MD)	12,300 ft
Hole Size	8.75 in
Casing Size/Weight :	5 1/2 in, 17 lbs/ft
Pump Via	5 1/2" O.D. (4.892" I.D) 17
Total Mix Water Required	22,068 gals
Stage No: 1	Float Collar set @ 12,220 ft
<b>Spacer</b>	
Turbo Flow III	40 bbls
Density	11.5 ppg
<b>Spacer</b>	
Fresh Water	5 bbls
Density	8.3 ppg
<b>Spacer</b>	
Surebond III	1,000 gals
Density	9.4 ppg
<b>Spacer</b>	
Fresh Water	10 bbls
Density	8.3 ppg
<b>Cement Slurry</b>	
Super C Modified	926 sacks
Density	13.3 ppg
Yield	1.57 cf/sack
<b>Displacement</b>	
Displacement Fluid	284 bbls

**JOB AT A GLANCE (Continued)**

Stage No: 2	Stage Collar set @	8,500 ft
Spacer		
Fresh Water		10 bbls
Density		8.3 ppg
Spacer		
Mud Clean II		1,000 gals
Density		8.3 ppg
Lead Slurry		
35:65:6 Poz:Class H		910 sacks
Density		12.5 ppg
Yield		1.95 cf/sack
Tail Slurry		
60:40 Poz:Class H (MPA)		940 sacks
Density		13.8 ppg
Yield		1.34 cf/sack
Displacement		
Displacement Fluid		198 bbls

**Operator Name:** Devon Energy Corp  
**Well Name:** Indian Draw 6 Fed Com #2  
**Job Description:** Long String  
**Date:** August 27, 2008



**Proposal No:** 215854627A

## FLUID SPECIFICATIONS

### STAGE NO.: 1

Spacer	40.0 bbls Turbo Flow III @ 11.5 ppg
Spacer	5.0 bbls Fresh Water @ 8.34 ppg
Spacer	1,000.0 gals Surebond III @ 9.35 ppg
Spacer	10.0 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	1450	/ 1.57	= 926 sacks (15:61:11) Poz (Fly Ash):Premium Plus C Cement:CSE-2 + 0.3% bwoc R-3 + 1% bwow Potassium Chloride + 0.75% bwoc EC-1 + 0.125 lbs/sack Cello Flake + 0.4% bwoc CD-32 + 3 lbs/sack LCM-1 + 0.6% bwoc FL-25 + 0.6% bwoc FL-52A + 72.3% Fresh Water

Displacement 284.1 bbls Displacement Fluid

### CEMENT PROPERTIES

#### SLURRY NO. 1

Slurry Weight (ppg)	13.30
Slurry Yield (cf/sack)	1.57
Amount of Mix Water (gps)	7.54
Estimated Pumping Time - 70 BC (HH:MM)	4:15
Free Water (mls) @ 159 ° F @ 90 ° angle	0.0
Fluid Loss (cc/30min) at 1000 psi and 159 ° F	50.0

#### COMPRESSIVE STRENGTH

12 hrs @ 203 ° F (psi)	1400
24 hrs @ 203 ° F (psi)	2000
72 hrs @ 203 ° F (psi)	2500



Operator Name: Devon Energy Corp  
Well Name: Indian Draw 6 Fed Com #2  
Job Description: Long String  
Date: August 27, 2008



Proposal No: 215854627A

## FLUID SPECIFICATIONS (Continued)

### STAGE NO.: 2

Spacer	10.0 bbls Fresh Water @ 8.34 ppg
Spacer	1,000.0 gals Mud Clean II @ 8.34 ppg
Lead Slurry	1772 / 1.95 = 910 sacks (35:65) Poz (Fly Ash):Class H Cement + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 6% bwoc Bentonite + 0.4% bwoc FL-52A + 99.3% Fresh Water
Tail Slurry	1263 / 1.34 = 940 sacks (60:40) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.75% bwoc BA-10A + 4% bwoc MPA-5 + 61.3% Fresh Water
Displacement	197.6 bbls Displacement Fluid

### CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.50	13.80
Slurry Yield (cf/sack)	1.95	1.34
Amount of Mix Water (gps)	10.36	6.02
Estimated Pumping Time - 70 BC (HH:MM)	4:00	2:45
Free Water (mls) @ ° F @ 90 ° angle		0.0
Fluid Loss (cc/30min) at 1000 psi and ° F		300.0

### COMPRESSIVE STRENGTH

12 hrs @ 145 ° F (psi)	175	
24 hrs @ 145 ° F (psi)	250	
72 hrs @ 145 ° F (psi)	700	
12 hrs @ 165 ° F (psi)		1100
24 hrs @ 165 ° F (psi)		2100
72 hrs @ 165 ° F (psi)		3000

BATCH MIX THE SUPER C MODIFIED CEMENT SLURRY IF FALCON CEMENT PUMP IS NOT AVAILABLE.

ACTUAL CEMENT VOLUMES MAY VARY BASED ON CALIPER.

TOP OF 2ND STAGE TAIL MAY VARY.

**Indian Draw 6 Fed Com 2  
30-015-36294  
Devon Energy Production Co., L.P.  
September 3, 2008  
Conditions of Approval**

- 1. Depth change to 12,300' is approved.**
- 2. Drilling below the 9-5/8" shoe can commence after WOC of 18 hours as that is the greater time from provided WOC times and time for water basin.**
- 3. Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. The pressure to be applied at surface is 1100 psi, which will place a total pressure of 2560 psi on the formation a maximum distance of 20' below the intermediate shoe. NOTE – the setting point of 2750' places the casing in the Bell Canyon, which is a dolomite and can be hydrocarbon bearing at that depth. The Bell Canyon has some highly porous areas. If the formation fails the test, an additional casing string will be required.**
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:**
  - a. First stage to DV tool, cement shall:**
    - ☒ **Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.**
  - b. Second stage above DV tool, cement shall:**
    - ☒ **Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.**

**WWI 090208**