

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N French Dr , Hobbs, NM 88240  
District II  
1301 W Grand Ave , Artesia, NM 88210  
District III  
1000 Rio Brazos Rd , Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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WELL API NO. 30-015-36276
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Indian Draw 12 Fee Com
8. Well Number 3
9. OGRID Number 6137
10. Pool name or Wildcat Carlsbad; Morrow, East (Gas)

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3090'
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Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS )  
1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator  
Devon Energy Production Company, LP

3. Address of Operator  
20 North Broadway Oklahoma City, Oklahoma 73102-8260 (405) 552-7802

4. Well Location  
Unit Letter C : 670 feet from the North line and 1970 feet from the West line  
Section 12 Township 22S Range 27E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3090'

Pit or Below-grade Tank Application ☐ or Closure ☐  
Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_  
Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: Change to Intermediate Casing Depth ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon respectfully requests to make changes to initial permit approved on 04/23/08 and sundry NOI approved on 05/12/08:

**From:** 12 1/4" hole - 9 5/8" 40# J-55 LT&C 0'-2,160'; 725 sx Cl C cmt

**To:** 12 1/4" hole - 9 5/8" 40# J-55 LT&C 0'-2,700'; 915 sx Cl C cmt

**Note:** Review of offset wells around the subject well, it appears that the ICP is significantly deeper (2700-3000'). Drilling Engineer pointed out that the shallower casing point may lead to well control issues in the Strawn/Atoka/Morrow; stronger consideration and basis to setting more pipe.

See cementing report for changes to the cementing program.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Stephanie A. Ysasaga TITLE Sr, Staff Engineering Technician DATE 05/27/08

Type or print name Stephanie A. Ysasaga E-mail address: Stephanie.Ysasaga@dvn.com Telephone No. (405) 552-7802  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of Approval (if any): Accepted for record - NMOCD



**Proposal No: 215854255D**

**Devon Energy Corp**  
**Indian Draw 12 Fee #3**

API # 30-015-36276-0000

Sec. 12-22S-27E  
Eddy County, New Mexico  
May 27, 2008

**MAY 28 2008**  
**OCD-ARTESIA**

### **Well Recommendation**

**Prepared for:**

Steven Jones  
Drilling Engineer  
Oklahoma City, Oklahoma  
Bus Phone: (405) 552-7994

**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:**

Michael Palmer  
District Sales Supervisor  
Artesia, New Mexico

**Operator Name:** Devon Energy Corp  
**Well Name:** Indian Draw 12 Fee #3  
**Job Description:** Intermediate Casing  
**Date:** May 27, 2008



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## JOB AT A GLANCE

Depth (TVD)	2,700 ft
Depth (MD)	2,700 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	8,059 gals
Spacer	
Fresh Water	20 bbls
Density	8.3 ppg
Lead Slurry	
35:65:6 Poz:Class C	615 sacks
Density	12.7 ppg
Yield	1.95 cf/sack
Tail Slurry	
60:40 Poz:Class C (MPA)	300 sacks
Density	13.8 ppg
Yield	1.37 cf/sack
Displacement	
Mud	202 bbls
Density	10.0 ppg

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## WELL DATA

### ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
12.615 CASING	395	395
12.250 HOLE	2,700	2,700

### SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
9.625	8.835	40	2,700	2,700

Float Collar set @ 2,660 ft  
 Mud Density 10.00 ppg  
 Est. Static Temp. 107 ° F  
 Est. Circ. Temp. 93 ° F

### VOLUME CALCULATIONS

395 ft	x	0.3627 cf/ft	with	0 % excess	=	143.3 cf
1,676 ft	x	0.3132 cf/ft	with	100 % excess	=	1049.6 cf
629 ft	x	0.3132 cf/ft	with	100 % excess	=	394.1 cf
40 ft	x	0.4257 cf/ft	with	0 % excess	=	17.0 cf (inside pipe)
<b>TOTAL SLURRY VOLUME</b>					=	1604.1 cf
					=	286 bbls

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## 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	1193	/ 1.95	= 615 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	411	/ 1.37	= 300 sacks (60:40) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.5% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.8% Fresh Water

Displacement 201.7 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	1.37
Amount of Mix Water (gps)	10.00	6.37
Estimated Pumping Time - 70 BC (HH:MM)	3:30	3:00
<b>COMPRESSIVE STRENGTH</b>		
8 hrs @ 98 ° F (psi)		500
12 hrs @ 98 ° F (psi)	150	750
24 hrs @ 98 ° F (psi)	350	2000
72 hrs @ 98 ° F (psi)	750	2900

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.

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## **PRODUCT DESCRIPTIONS**

### **ASA-301**

Additive used to reduce or eliminate free water and settling in cement slurries.

### **BA-10A**

Improves cement bonding and acts as a matrix flow control agent. BA-10A is effective in a wide variety of slurries.

### **Bentonite**

Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.

### **CD-32**

A patented, free-flowing, water soluble polymer that is an efficient and effective dispersant for primary and remedial cementing

### **CSE-2**

An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water without the need for standard extenders.

### **Calcium Chloride**

A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development.

### **Cello Flake**

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

### **Class H Cement**

Class H cement is an API type, all purpose oil well cement which is used without modification in wells up to 8,000 ft. It possesses a moderate sulfate resistance. With the use of accelerators or retarders, it can be used in a wide range of well depths and temperatures.

### **EC-1**

A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.

### **FL-25**

An all purpose salt-tolerant fluid loss additive that provides exceptional fluid loss control across a wide range of temperatures and salinity conditions and remedial cementing applications.

### **FL-52A**

A water soluble, high molecular weight fluid loss additive used in medium to low density slurries. It is functional from low to high temperature ranges.

### **Kol Seal**

A granular, lightweight material (specific gravity of 1.3) used to control lost circulation in zones of natural and induced fractures, cavities and high permeability.

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Report

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**PRODUCT DESCRIPTIONS (Continued)**

**LCM-1**

A graded (8 to 60 mesh) naturally occurring hydrocarbon, asphaltite. It is used as a lost circulation material at low to moderate temperatures and will act as a slurry extender. Cement compressive strength is reduced.

**MPA-5**

Used to enhanced compressive, tensile, flexural strength development and reduced permeability

**Mud Clean II**

A water-base mud wash designed for use ahead of cement slurries to aid in mud and drilling debris removal and to prevent contamination of the cement slurry. It should be used only when water-base mud is used.

**Potassium Chloride**

A granular salt used to reduce clay swelling caused by water-base stimulation fluids.

**Poz (Fly Ash)**

A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.

**R-21**

A low to medium temperature retarder used to control thickening time of cement slurries.

**R-3**

A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.

**Sodium Chloride**

At low concentrations, it is used as an accelerator for cement slurries. At high concentrations, it is used for formation compatibility.

**Sodium Metasilicate**

An extender used to produce an economical, low density cement slurry.

**Surebond III Spacer**

A blend of liquid components which when run as a preflush ahead of cement, will leave both the formation and pipe water wet, thus enhancing bonding. Surebond is also effective in combating slurry loss to fractured formations due to its coating action. A fresh water spacer should always be run between the Surebond and cement slurries.

**Turbo Flow III**

A water-based weighted cement spacer designed for water based drilling muds. Turbo Flow III easily achieves turbulence in most hole geometries and is compatible with cements and most drilling muds.

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Report

STIMULATION • CEMENTING • COMPLETION SERVICES • SERVICE TOOLS • COILED TUBING  
PRODUCTION CHEMICALS • CASING AND TUBING RUNNING SERVICES • PIPELINE SERVICES • WELL CONTROL • CHEMICAL SERVICES

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**End of Report**