

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



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)	

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: Change to Original Permit ☒

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:

From: 17 1/2" hole - 13 3/8" 48# J-55 ST&C 0'-325'; 305 sx Cl C cmt
12 1/4" hole - 9 5/8" 40# J-55 LT&C 0'-2,325'; 790 sx Cl C cmt
8 3/4" hole - 5 1/2" 17# HCP-110 LT&C 0'-12,300'; 1,900 sx Cl C

To: 17 1/2" hole - 13 3/8" 54.5# H-40 ST&C 0'-395'; 375 sx Cl C cmt
12 1/4" hole - 9 5/8" 40# J-55 LT&C 0'-2,160'; 725 sx Cl C cmt
8 3/4" hole - 5 1/2" 17# HCP-110 LT&C 0'-12,240'; 2855 sx Cl C & H cmt

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 [Signature] TITLE Sr, Staff Engineering Technician DATE 05/09/08

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: 215854255B

Devon Energy Corp
Indian Draw 12 Fee #3

Sec 12-22S-27E
Eddy County, New Mexico
May 8, 2008

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: Surface Casing
Date: May 8, 2008



Proposal No: 215854255B

JOB AT A GLANCE

Depth (TVD)	395 ft
Depth (MD)	395 ft
Hole Size	17.5 in
Casing Size/Weight :	13 3/8 in, 54.5 lbs/ft
Pump Via	13 3/8" O D. (12.615" I.D) 54.5
Total Mix Water Required	2,978 gals
Spacer	
Fresh Water	20 bbls
Density	8.3 ppg
Lead Slurry	
35:65:6 Poz:Class C	175 sacks
Density	12.8 ppg
Yield	1.83 cf/sack
Tail Slurry	
Class C	200 sacks
Density	14.8 ppg
Yield	1.35 cf/sack
Displacement	
Mud	55 bbls
Density	9.0 ppg

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Surface Casing
Date: May 8, 2008



Proposal No: 215854255B

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
17.500 HOLE	395	395

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
13.375	12.615	54.5	395	395

Float Collar set @ 355 ft
 Mud Density 9.00 ppg
 Est. Static Temp. 84 ° F
 Est. Circ. Temp. 80 ° F

VOLUME CALCULATIONS

226 ft	x	0.6946 cf/ft	with	100 % excess	=	314.4 cf
169 ft	x	0.6946 cf/ft	with	100 % excess	=	234.4 cf
40 ft	x	0.8680 cf/ft	with	0 % excess	=	34.7 cf (inside pipe)
TOTAL SLURRY VOLUME					=	583.5 cf
					=	104 bbls

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Surface Casing
Date: May 8, 2008



Proposal No: 215854255B

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	314	/ 1.83	= 175 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 2% bwoc Calcium Chloride + 93.6% Fresh Water
Tail Slurry	269	/ 1.35	= 200 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water

Displacement 54.9 bbls Mud @ 9 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.80	14.80
Slurry Yield (cf/sack)	1.83	1.35
Amount of Mix Water (gps)	9.76	6.35
Estimated Pumping Time - 70 BC (HH:MM)	4:45	2:30

COMPRESSIVE STRENGTH

8 hrs @ 80 ° F (psi)		500
12 hrs @ 80 ° F (psi)	200	1150
24 hrs @ 80 ° F (psi)	350	2100
72 hrs @ 80 ° F (psi)	500	2700

IF CIRCULATION IS LOST DURING DRILLING, PUMP 250 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 12 Fee #3
Job Description: Intermediate Casing
Date: May 8, 2008



Proposal No: 215854255B

JOB AT A GLANCE

Depth (TVD)	2,160 ft
Depth (MD)	2,160 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	6,341 gals
Spacer	
Fresh Water	20 bbls
Density	8.3 ppg
Lead Slurry	
35:65:6 Poz:Class C	475 sacks
Density	12.7 ppg
Yield	1.95 cf/sack
Tail Slurry	
60:40 Poz:Class C (MPA)	250 sacks
Density	13.8 ppg
Yield	1.37 cf/sack
Displacement	
Mud	161 bbls
Density	10.0 ppg

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Intermediate Casing
Date: May 8, 2008



Proposal No: 215854255B

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
12.615 CASING	395	395
12.250 HOLE	2,160	2,160

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
9.625	8.835	40	2,160	2,160

Float Collar set @ 2,120 ft
 Mud Density 10.00 ppg
 Est. Static Temp. 102 ° F
 Est. Circ. Temp. 90 ° F

VOLUME CALCULATIONS

395 ft	x	0.3627 cf/ft	with	0 % excess	=	143.3 cf
1,245 ft	x	0.3132 cf/ft	with	100 % excess	=	779.9 cf
520 ft	x	0.3132 cf/ft	with	100 % excess	=	325.6 cf
40 ft	x	0.4257 cf/ft	with	0 % excess	=	17.0 cf (inside pipe)
TOTAL SLURRY VOLUME					=	1265.8 cf
					=	226 bbls

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Intermediate Casing
Date: May 8, 2008



Proposal No: 215854255B

FLUID SPECIFICATIONS

Spacer 20.0 bbls Fresh Water @ 8.34 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	923	/ 1.95	= 475 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	343	/ 1.37	= 250 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 160.8 bbls Mud @ 10 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
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
COMPRESSIVE STRENGTH		
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.

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Long String
Date: May 8, 2008



Proposal No: 215854255B

JOB AT A GLANCE

Depth (TVD)	12,240 ft
Depth (MD)	12,240 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	23,754 gals
Stage No: 1	Float Collar set @ 12,160 ft
Spacer	
Turbo Flow III	40 bbls
Density	11.5 ppg
Spacer	
Fresh Water	5 bbls
Density	8.3 ppg
Spacer	
Surebond III	1,000 gals
Density	9.4 ppg
Spacer	
Fresh Water	10 bbls
Density	8.3 ppg
Cement Slurry	
Super C Modified	910 sacks
Density	13.3 ppg
Yield	1.57 cf/sack
Displacement	
Displacement Fluid	283 bbls

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Long String
Date: May 8, 2008



Proposal No: 215854255B

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 1,195 sacks
Density 12.5 ppg
Yield 1.95 cf/sack

Tail Slurry

60:40 Poz:Class H (MPA) 750 sacks
Density 13.8 ppg
Yield 1.34 cf/sack

Displacement

Displacement Fluid 198 bbls



WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.835 CASING	2,160	2,160
8.750 HOLE	12,240	12,240

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.892	17	12.240	12.240

<u>STAGE:</u> 1	Float Collar set @	12,160 ft
	Mud Density	10.50 ppg
	Est. Static Temp.	202 ° F
	Est. Circ. Temp.	159 ° F

VOLUME CALCULATIONS

3,740 ft	x	0.2526 cf/ft	with	50 % excess	=	1417.1 cf
80 ft	x	0.1305 cf/ft	with	0 % excess	=	10.4 cf (inside pipe)
TOTAL SLURRY VOLUME					=	1427.5 cf
					=	254 bbls

<u>STAGE:</u> 2	Stage Collar set @	8,500 ft
	Mud Density	10.50 ppg
	Est. Static Temp.	165 ° F
	Est. Circ. Temp.	132 ° F

VOLUME CALCULATIONS

500 ft	x	0.2607 cf/ft	with	0 % excess	=	130.4 cf
4,340 ft	x	0.2526 cf/ft	with	100 % excess	=	2192.5 cf
2,000 ft	x	0.2526 cf/ft	with	100 % excess	=	1010.4 cf
TOTAL SLURRY VOLUME					=	3333.3 cf
					=	594 bbls

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Long String
Date: May 8, 2008



Proposal No: 215854255B

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	1428	/ 1.57	= 910 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	282.7 bbls		Displacement Fluid

CEMENT PROPERTIES

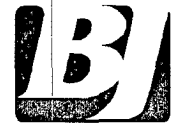
SLURRY NO. 1

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 12 Fee #3
Job Description: Long String
Date: May 8, 2008



Proposal No: 215854255B

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	2323 / 1.95 = 1195 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	1010 / 1.34 = 750 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

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Displacement	197.6 bbls Displacement Fluid		

CEMENT PROPERTIES

	<u>SLURRY NO. 1</u>	<u>SLURRY NO. 2</u>
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)	4:30	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)	250	
24 hrs @ 145 ° F (psi)	500	
72 hrs @ 145 ° F (psi)	800	
12 hrs @ 165 ° F (psi)		1100
24 hrs @ 165 ° F (psi)		2100
72 hrs @ 165 ° F (psi)		3000

Operator Name: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Job Description: Long String
Date: May 8, 2008



Proposal No: 215854255B

FLUID SPECIFICATIONS (Continued)

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.



CONDITIONS

BJ Services' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions contained in the current BJ Services Price Book. The Terms and Conditions include, among other things, an indemnity in favor of BJ Services from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of BJ Services. The Terms and Conditions also limit the warranties provided by the BJ Services and the remedies to which Customer may be entitled in the event of a breach of warranty by BJ Services. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions. **If you do not have a copy of the BJ Services Price Book, you can view the Terms and Conditions on BJ Services Web Site, www.bjservices.com.** By requesting that BJ Services perform the services described herein, Customer acknowledges that such Terms and Conditions are applicable to the services. Further, by requesting the services, Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a Field Receipt or other document presented by BJ Services containing such Terms and Conditions.

In the event that Customer and BJ Services have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and Conditions. If you are interested in entering into Master Services Agreement with BJ Services, please contact us through the "Go BJ" button on the BJ Services Web Site.

Operator: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Date: May 8, 2008



Proposal No: 215854255B

PRODUCT DESCRIPTIONS

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.

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.

Operator: Devon Energy Corp
Well Name: Indian Draw 12 Fee #3
Date: May 8, 2008



Proposal No: 215854255B

PRODUCT DESCRIPTIONS (Continued)

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-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.