

OCD-ARTESIA

UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.

NM-81953

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Glow Worm ALX Federal #16H

9. API Well No.

30-015-36369

10. Field and Pool, or Exploratory Area

Los Mendanos, Delaware

11. County or Parish, State

Eddy, New Mexico

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Yates Petroleum Corporation

3a. Address

105 South Fourth Street, Artesia, NM 88210

3b. Phone No. (include area code)

(575) 748-1471

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 200' FNL & 900' FEL,

BHL: 330' FSL & 900' FEL,

Section 4, T23S-R31E, Unit Letter (Surface A) (BHL P)

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 type="checkbox"/> Other
	<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 Operations (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 recompleate 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 recompletion 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.)

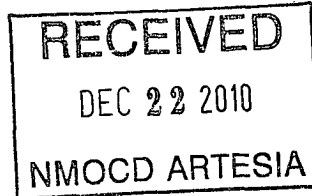
Yates Petroleum Corporation respectfully requests permission to change the production hole size as follows:

An 8 3/4" hole will be drilled to the end of curve at approx. 8332' MD (as permitted).

Hole will then be reduce to 8 1/2" and drilled to TD of the lateral (8332'-12,598' MD).

Cement program is attached.

Thank-You,



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Jeremiah Mullen

Title

Well Planner

Signature

Jeremiah Mullen

Date

APPROVED

December 16, 2010

Approved by

[Signature]

THIS SPACE FOR FEDERAL OR STATE USE

Title

Date

DEC 17 2010

Office

/s/ Dustin Winkler

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.

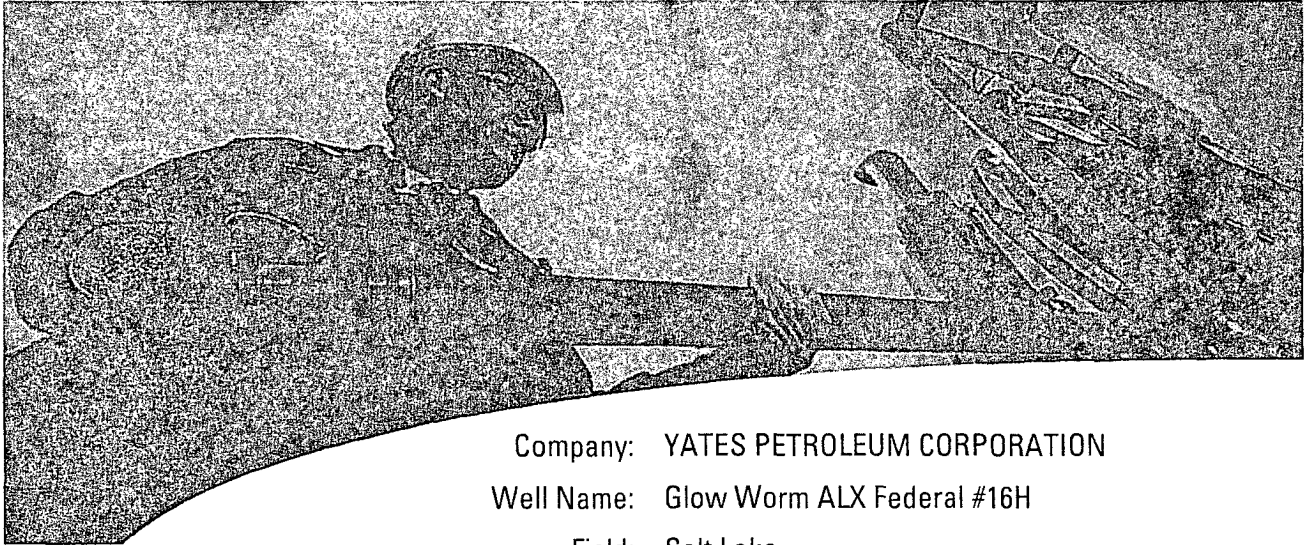
Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

[Handwritten initials]

Multistage Cementing



Company: YATES PETROLEUM CORPORATION

Well Name: Glow Worm ALX Federal #16H

Field: Salt Lake

State: MI

Date: 11/19/2010

Well Location: Sec 4, T 23s, R 31e

API Number: 30-015-73624

Proposal Number: 1

Contact: Mr. Tim Bussell

Made By: Russell Crowe

Service from District: Hobbs, NM

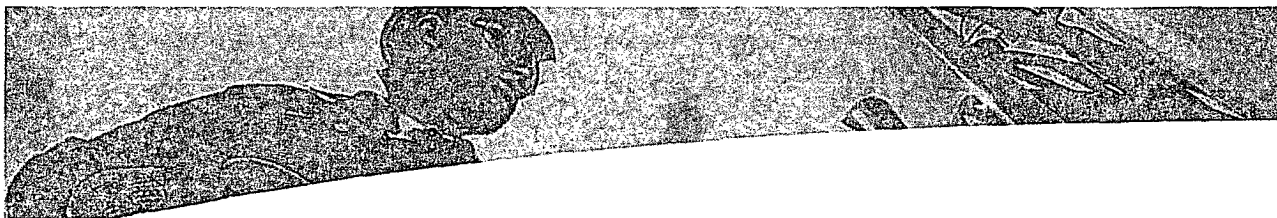
District Phone: 575-748-1392

Objective: Cement 12648' of 5 1/2 casing in 3 stages. Cement calculation will be figured on 35% excess over open hole and 15% excess in cased hole.

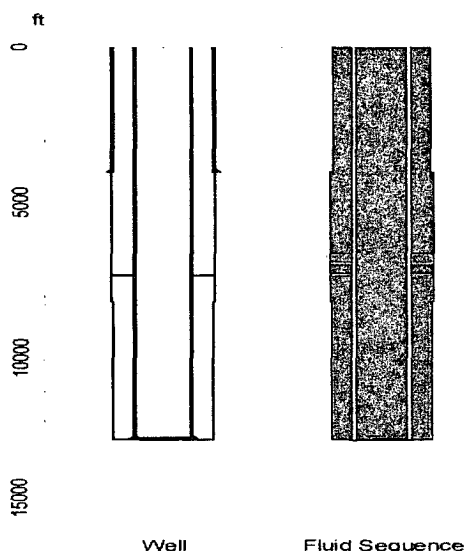
Disclaimer Notice

This information is presented in good faith, but no warranty is given by and Schlumberger assumes no liability for advice or recommendations made concerning the use of any product or service. The results given are estimates based on calculations produced by a computer model including various assumptions on the well, reservoir and treatment. The results depend on input data provided by the Customer and estimates as to unknown data and can no more accurate than the model, the assumptions and such input data. The information presented is Schlumberger's best estimate of the results that may be achieved and should be used for comparison purposes rather than absolute values. The quality of input data, and hence results, may be improved through the use of certain tests and procedures which Schlumberger can assist in selecting. Freedom from infringement of patents of Schlumberger or others is not to be inferred nor are any such rights granted unless expressly agreed to in writing.

Schlumberger



WELL DATA Stage 1



IMPORTANT:

The well data shown on this page is based on information available when this treatment program was prepared. This data must be confirmed on location with the wellsite supervisor prior to the treatment. Any changes in the well data need to be reviewed for their impact on the treatment design.

Well Data	
Job Type :	Multistage Cementing
Total Depth (Measured) :	12648.0 ft
True Vertical Depth (TVD) :	8060.0 ft
BHST (Tubular Bottom Static Temperature) :	142 degF
BHCT (Tubular Bottom Circulating Temperature) :	114 degF

Open Hole		
Mean Diameter without Excess	Bottom Depth	Annular Excess
8.622 in	12648.0 ft	35.0 %

Previous Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
9 5/8 in	36.0 lb/ft	H-40	STC	0.43 ft ³ /ft	4050.0 ft

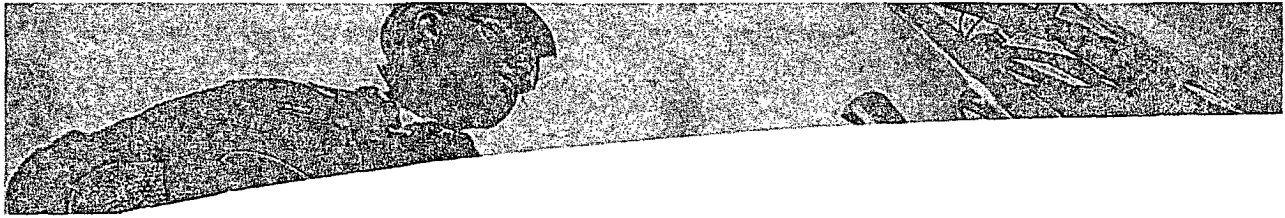
Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
5 1/2 in	17.0 lb/ft	K-55	BTC	0.13 ft ³ /ft	12648.0 ft

Annular Capacity (without Excess) : Casing Bottom / Open Hole : 0.24 ft³/ft

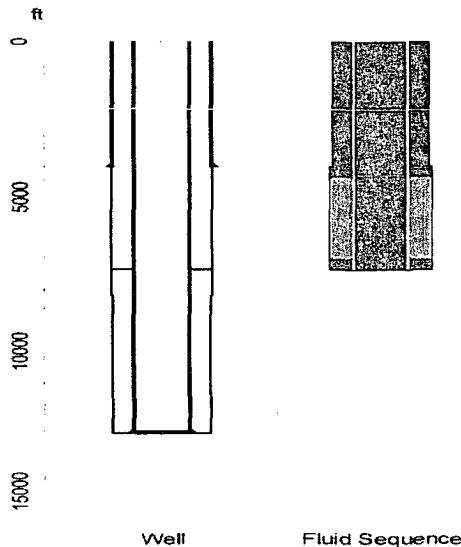
Annular Capacity (without Excess) : Previous Casing Bottom / Casing : 0.27 ft³/ft

Fluid Placement			
Fluid Name	Volume gal	Density lb/gal	Top of Fluid ft
Chemical Wash	840	8.40	6691.4
Fresh Water	840	8.34	7020.7
1st Stage Slurry	12536	13.00	7350.0
Fresh Water	5880	8.34	6545.9
Mud	6392	9.20	0.0

Total Liquid Volume : 26488 gal



WELL DATA Stage 2



Well Data	
Job Type :	Multistage Cementing
Total Depth (Measured) :	12648.0 ft
True Vertical Depth (TVD) :	8060.0 ft
BHST (Tubular Bottom Static Temperature) :	116 degF
BHCT (Tubular Bottom Circulating Temperature) :	103 degF

Stage Collar	
Measured Depth :	7350.0 ft

Previous Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
9 5/8 in	36.0 lb/ft	H-40	STC	0.43 ft3/ft	4050.0 ft

Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
5 1/2 in	17.0 lb/ft	K-55	BTC	0.13 ft3/ft	12648.0 ft

Annular Capacity (without Excess) : Previous Casing Bottom / Casing : 0.27 ft3/ft

IMPORTANT:

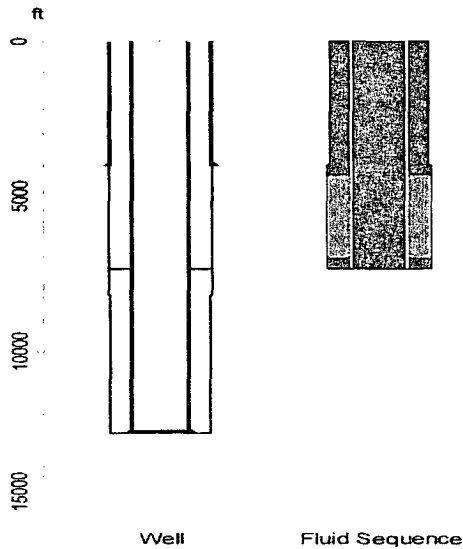
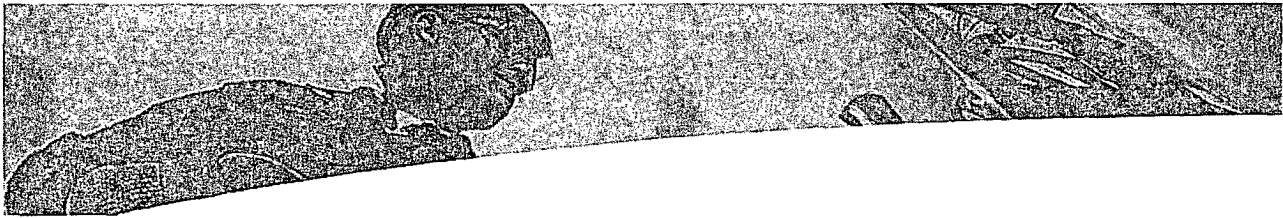
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Fluid Placement			
Fluid Name	Volume gal	Density lb/gal	Top of Fluid ft
Fresh Water	840	8.34	4070.7
2nd Stg Lead	6635	12.40	4400.0
2nd Stg Tail	890	15.60	7000.9
Fresh Water	2940	8.34	4339.0
Mud	4237	9.20	0.0

Total Liquid Volume : 15542 gal

WELL DATA Stage 3

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Well Data	
Job Type :	Multistage Cementing
Total Depth (Measured) :	12648.0 ft
True Vertical Depth (TVD) :	8060.0 ft
BHST (Tubular Bottom Static Temperature) :	116 degF
BHCT (Tubular Bottom Circulating Temperature) :	103 degF

Stage Collar	
Measured Depth :	4400.0 ft

Previous Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
9 5/8 in	36.0 lb/ft	H-40	STC	0.43 ft3/ft	4050.0 ft

Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
5 1/2 in	17.0 lb/ft	K-55	BTC	0.13 ft3/ft	12648.0 ft

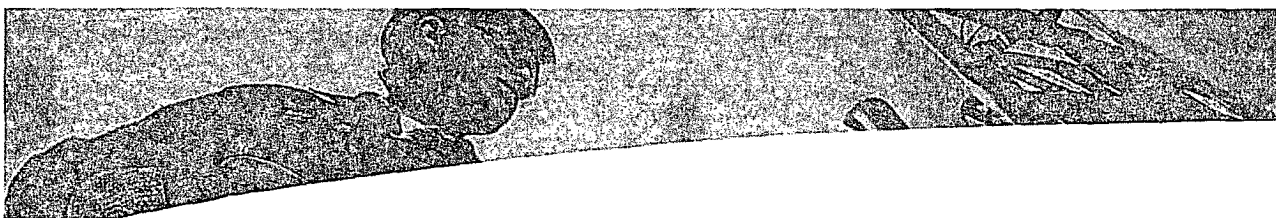
Annular Capacity (without Excess) : Previous Casing Bottom / Casing : 0.27 ft3/ft

IMPORTANT:

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Fluid Placement			
Fluid Name	Volume gal	Density lb/gal	Top of Fluid ft
Fresh Water	840	8.34	0.0
3rd Stg Lead	9290	12.60	0.0
3rd Stg Tail	1008	14.80	3992.8
Fresh Water	4296	8.34	0.0

Total Liquid Volume : 15435 gal



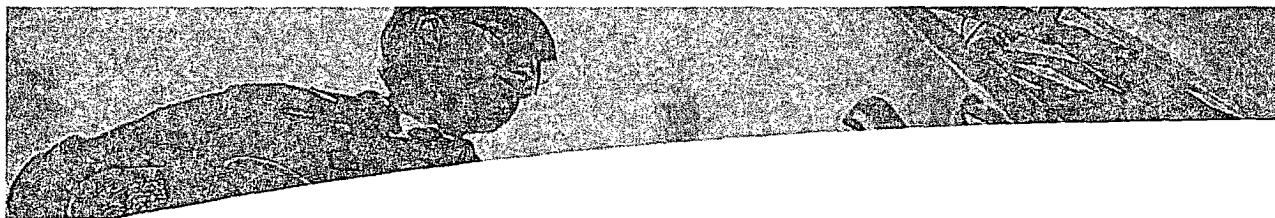
FLUID SYSTEMS Stage 1

Chemical Wash			
System	CW100		
Density	8.40 lb/gal		
Total volume	840 gal		
Additives	Code	Description	Concentration

Fresh Water			
System	Water		
Density	8.34 lb/gal		
Total volume	6720 gal		
Additives	Code	Description	Concentration

1st Stage Slurry (910 sacks, 75 lb per sack of Blend) PVL+30%D151+2%D174+0.6%D65+0.2%D46+0.5%D79+0.8%D800+0.6%D112+0.02GPSD177			
System	Conventional		
Density	13.00 lb/gal		
Yield	1.84 ft ³ /sk		
Mixed Water	9.332 gal/sk		
Mixed Fluid	9.352 gal/sk		
Total volume	12536 gal		
Expected Thickening Time	70 Bc at 03:35 hr:mn		
Additives	Code	Description	Concentration
	D177	Retarder	0.020 gal/sk
	D151	Miscellaneous	30.0 % BWOB
	D174	Expanding Agent	2.0 % BWOB
	D065	Dispersant	0.6 % BWOB
	D046	Anti Foam	0.2 % BWOB
	D079	Extender	0.5 % BWOB
	D800	Retarder	0.8 % BWOB
	D112	Fluid loss	0.6 % BWOB
	D049	Cement	75 lb/sk

Some of the chemicals specified in this program may have toxic properties. All personnel should be familiar with the inherent dangers and appropriate safeguards to prevent accidental injury. Use of the chemicals may be governed by certain laws and regulations and should only be used in accordance with such. Please refer to the MSDS sheets for the recommended safety precautions and required minimum personal protective equipment.



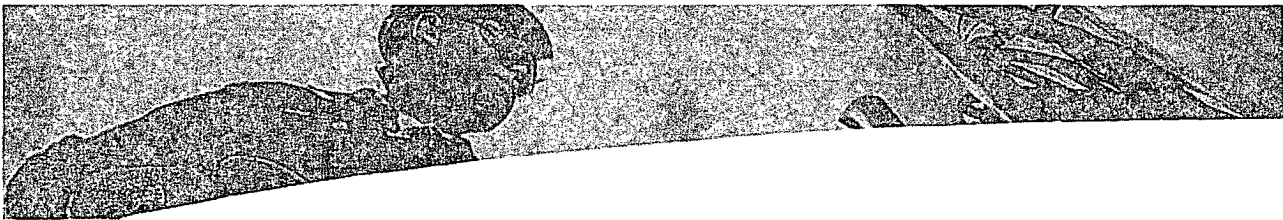
FLUID SYSTEMS Stage 2

Fresh Water			
System	Water		
Density	8.34 lb/gal		
Total volume	3780 gal		
Additives	Code	Description	Concentration

2nd Stg Lead (425 sacks, 89 lb per sack of Blend) 35/65 Poz/H+8%D20+0.2%D46+0.4%D112			
System	Conventional		
Density	12.40 lb/gal		
Yield	2.09 ft ³ /sk		
Mixed Water	11.725 gal/sk		
Mixed Fluid	11.725 gal/sk		
Total volume	6635 gal		
Expected Thickening Time	70 Bc at 08:13 hr:mn		
Expected Fluid Loss	30 mL in 30.0 min		
Additives	Code	Description	Concentration
	D020	Extender	8.0 % BWOB
	D046	Anti Foam	0.2 % BWOB
	D112	Fluid loss	0.4 % BWOB
	D909	Cement	61 lb/sk
	D132	Extender	28 lb/sk

2nd Stg Tail (100 sacks, 94 lb per sack of Blend) H+0.4%D167+0.2%D46+0.2%D65+0.3%D800			
System	Conventional		
Density	15.60 lb/gal		
Yield	1.19 ft ³ /sk		
Mixed Water	5.220 gal/sk		
Mixed Fluid	5.220 gal/sk		
Total volume	890 gal		
Expected Thickening Time	70 Bc at 05:12 hr:mn		
Expected Fluid Loss	85 mL in 5.0 min		
Additives	Code	Description	Concentration
	D167	Fluid loss	0.4 % BWOB
	D046	Anti Foam	0.2 % BWOB
	D065	Dispersant	0.2 % BWOB
	D800	Retarder	0.3 % BWOB
	H	Cement	94 lb/sk

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FLUID SYSTEMS Stage 3

Fresh Water			
System	Water		
Density	8.34 lb/gal		
Total volume	5136 gal		
Additives	Code	Description	Concentration

3rd Stg Lead (600 sacks, 89 lb per sack of Blend) 35/65 Po/C, 5% D44 BWOW, 6% D20, 0.2% D46, 1% D112, 2PPSD42, 0.125PPSD130			
System	Conventional		
Density	12.60 lb/gal		
Yield	2.08 ft ³ /sk		
Mixed Water	11.489 gal/sk		
Mixed Fluid	11.489 gal/sk		
Total volume	9290 gal		
Expected Thickening Time	70 Bc at 04:21 hr:mn		
Expected Fluid Loss	118 mL in 25.0 min		
Additives	Code	Description	Concentration
	D044	NaCl	5.0 % BWOW
	D020	Extender	6.0 % BWOB
	D046	Anti Foam	0.2 % BWOB
	D112	Fluid loss	1.0 % BWOB
	D042	Extender	2 lb/sk
	D130	Lost Circulation Control Agent	0.125 lb/sk
	D903	Cement	61 lb/sk
	D132	Extender	28 lb/sk

3rd Stg Tail (100 sacks, 94 lb per sack of Blend) C+0.2% D13			
System	Conventional		
Density	14.80 lb/gal		
Yield	1.33 ft ³ /sk		
Mixed Water	6.352 gal/sk		
Mixed Fluid	6.352 gal/sk		
Total volume	1008 gal		
Additives	Code	Description	Concentration
	D013	Retarder	0.2 % BWOB
	C	Cement	94 lb/sk

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