

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 to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

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

RECEIVED

JUN 24 2010

NMOCD ARTESIA

5. Lease Serial No.

NM02862 - NM0030452

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Poker Lake Unit #308H

9. API Well No.

30-015-37728

10. Field and Pool, or Exploratory Area

Quahada Ridge SE (Delaware)

11. County or Parish, State

Eddy Co., NM

## SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

BOPCO, L. P.

3a. Address

P. O. Box 2760 Midland, TX 79702

3b. Phone No. (include area code)

432-683-2277

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

Surface: NESE, 1800' FSL, 330' FEL, Sec 26, T24S, R30S, Lat N32.186669, Lon W103.843586

BHL: NWSW, 1980' FSL, 330' FWL, Sec 23, T24S, R30E, Lat N32.201456, Long W103.858733

## 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 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.)

BOPCO requests approval to change cement procedure. We will be removing the DV tool from the 7", 26#, N-80, LT&C, and do a single stage job, bringing the cement 200' into the 9 5/8", 40#, J-55, LT&C. We will be using the Schlumberger approved first stage cement slurry, which consist of, 450 sx of Lead, LiteCRETE, 10.20 lb/gal, 2.13 ft3/sx, with D065 0.3% BWOB, D046 0.2% BWOB, D042 3.0 lb/sx, & D177 0.07 gal/sx, & 100 sx of Tail, TX1, 13.00 lb/gal, 1.41 ft3/sx, with D112 0.2% BWOC, D065 0.2% BWOC, D800 0.4% BWOC, D042 3.0 lb/sx, & D046 0.2% BWOC.

See attached copy of Field Blends.

BOPCO L.P. Bond # on file: COB000050

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Annette Childers

Title Regulatory Clerk

Signature

Date

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Office

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)

APPROVED
Reggie D. Hall
JUN 22 2010
Petroleum Engineer
BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

## Bopco - Poker Lake 308H Intermediate Field Blend 1st Stage Lead

Fluid No : 2010 10C352005	Client : Bopco	Location / Rig : Eddy, NM	Signatures
Date : Jun-16-2010	Well Name : Poker Lake 308H	Field :	E. Garrison

Job Type	Intermediate	Depth	8800.0 ft	TVD	8800.0 ft
BHST	150 degF	BHCT	134 degF	BHP	4700 psi
Starting Temp.	80 degF	Time to Temp.	00:44 hr:mn	Heating Rate	1.03 degF/min
Starting Pressure	590 psi	Time to Pressure	00:44 hr:mn	Schedule	9.6-1

### Composition

Slurry Density	10.20 lb/gal	Yield	2.13 ft3/sk	Mix Fluid	7.125 gal/sk
Solid Vol. Fraction	55.4 %	Porosity	44.6 %	Slurry type	LiteCRETE
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
Expert_10-2l		100 lb of BLEND	Blend	87.78 lb/ft3	
Fresh water	7.055 gal/sk		Base Fluid		
D065	0.300 %BWOB		Dispersant		
D046	0.200 %BWOB		Antifoam		
D042	3.000 lb/sk		LCM/extender		
D177	0.070 gal/sk		Retarder		

### Rheology (Average readings)

(rpm)	(deg)	(deg)
300	102.0	77.0
200	77.5	62.5
100	52.0	41.5
60	41.0	34.5
30	32.5	27.0
6	20.0	17.0
3	17.0	11.5
10 sec Gel	17	10
10 min Gel	20	16
1 min Stirring		
Temperature	80 degF	134 degF
	Pv : 76.893 cP	Pv : 55.903 cP
	Ty : 25.67 lbf/100ft2	Ty : 22.82 lbf/100ft2

### Thickening Time

Consistency	Time
30 Bc	02:07 hr:mn
50 Bc	04:26 hr:mn
70 Bc	05:20 hr:mn

### Free Fluid

0.0 mL/250mL	in 2 hrs
At 134 degF and 0 deg incl.	
Sedimentation	None

### Fluid Loss

API Fluid Loss	120 mL
60-mL in 30 min at 134 degF	and 1000-psi

## Bopco - Poker Lake 308H Intermediate Field Blend 1st Stage Tail

Fluid No : 2010 10C352006	Client : Bopco	Location / Rig : Eddy, NM	Signatures
Date : Jun-16-2010	Well Name : Poker Lake 308H	Field :	E. Garrison

Job Type	Intermediate	Depth	8800.0 ft	TVD	8800.0 ft
BHST	150 degF	BHCT	134 degF	BHP	4700 psi
Starting Temp.	80 degF	Time to Temp.	00:44 hr:mn	Heating Rate	1.03 degF/min
Starting Pressure	590 psi	Time to Pressure	00:44 hr:mn	Schedule	9.6-1

### Composition

Slurry Density	13.00 lb/gal	Yield	1.41 ft <sup>3</sup> /sk	Mix Fluid	7.023 gal/sk
Solid Vol. Fraction	33.4 %	Porosity	66.6 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
PVL		75 lb of BLEND	Blend	176.05 lb/ft <sup>3</sup>	
Fresh water	7.023 gal/sk		Base Fluid		
D112	0.200 %BWOC		Fluid loss		
D065	0.200 %BWOC		Dispersant		
D800	0.400 %BWOC		Retarder		
D042	3.000 lb/sk		LCM/extender		
D046	0.200 %BWOC		Antifoam		

### Rheology (Average readings)

(rpm)	(deg)	(deg)
300	73.0	61.0
200	46.0	42.0
100	32.0	35.0
60	24.0	24.0
30	15.0	18.0
6	11.0	15.0
3	6.0	11.0
10 sec Gel	6	11
10 min Gel	22	16
Temperature	80 degF	134 degF
	Pv : 62.279 cP	Pv : 47.711 cP
	Ty : 9.63 lbf/100ft <sup>2</sup>	Ty : 14.13 lbf/100ft <sup>2</sup>

### Thickening Time

Consistency	Time
70 Bc	04:46 hr:mn

### Free Fluid

0.0 mL/250mL	in 2 hrs
At 134 degF and 0 deg incl.	
Sedimentation	None

### UCA Compressive Strength

Time	CS
04:21 hr:mn	50 psi
07:24 hr:mn	500 psi
12:00 hr:mn	1485 psi

### Fluid Loss

API Fluid Loss	142 mL
71 mL in 30 min at 134 degF and 1000 psi	

**PECOS DISTRICT  
CONDITIONS OF APPROVAL**

June 22, 2010

<b>OPERATOR'S NAME:</b>	<b>BOPCO, L.P.</b>
<b>LEASE NO.:</b>	<b>NMNM 030452</b>
<b>WELL NAME &amp; NO.:</b>	<b>Poker Lake Unit #308H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>1800' FSL &amp; 330' FEL Section 26, T24S, R30E</b>
<b>BOTTOM HOLE FOOTAGE</b>	<b>1980' FSL &amp; 330' FWL Section 23, T24S, R30E</b>
<b>LOCATION:</b>	<b>Section 26, T. 24 S., R 30 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

**B. CASING**

1. The minimum required fill of cement behind the 7 inch production casing is:

- ☒ Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.

**RGH 062210**

# OCD-ARTESIA

Form 3160-5  
(April 2004)

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DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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**P. O. Box 2760 Midland, TX 79702**

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**BOPCO requests approval of the revised casing plan.**

**The 7" casing program will be changed from 8352' of 7", 26#, P-110, LT&C to 8352' of 7", 26#, N-80, LT&C**

**BOPCO L.P. Bond # on file: COB000050**

14. I hereby certify that the foregoing is true and correct  
 Name (Printed/Typed)

**Brian Hammit**

Title **Drilling Engineer**

Signature

*Brian Hammit*

Date

**6/17/2010**

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Office

**APPROVED**

*Ryan G. Hall*

**Petroleum Engineer**

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 CARLSBAD FIELD OFFICE**