

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD UCD-HOBBS

FORM APPROVED  
OM B 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

2. Name of Operator  
ConocoPhillips Company (#217817) ✓

3a. Address 3b. Phone No. (include area code)  
3300 N. "A" Street, Bldg. 6, Midland TX 79705 (432)688-6884

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
T-17-S, R-32-E & R-33-E

5. Lease Serial No.  
LC-057210

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
MCA ✓

9. API Well No.  
30-025- See Attached

10. Field and Pool, or Exploratory Area  
Maljamar; Grayburg-San Andres

11. County or Parish, State  
Lea  
New Mexico ✓

## 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.)

Ref. Bond #ES0085

Referencing Master Drilling Plan on file with the BLM Carlsbad office dated 02/28/2008. ConocoPhillips wishes to submit the attached modifications to the cement program sections of the Master Drilling Plan.

Pg. 7 8-5/8" Surf. Csg. Lead Slurry Density Change from 13.1 to 13.5 ppg

Pg. 7 WOC time change from 24 to 18 hrs.

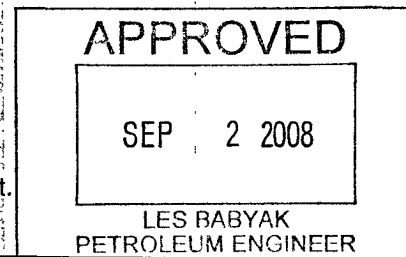
Pg. 8 5-1/2" Prod. Csg. Tail Slurry Density Change from 16.4 to 14.8 ppg

Pg. 9 5-1/2" Prod. Csg. Tail Slurry Density Change from 16.4 to 14.8 ppg

Pg. 11 5-1/2" Prod. Csg. Tail Slurry Density Change from 16.4 to 14.8 ppg

Updated pages are attached for your convenience to insert into the master document.

Your consideration given this request is greatly appreciated.



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

Celeste G. Dale

Title Regulatory Specialist

Signature

Date 06/16/2008

## 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

Date

Office

KZ

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)

RBDMS NEW MEXICO XP				Edit	Inquiry	Switchboard	User Queries	Refresh Data			
<b>API Well Number :</b> <input type="text"/> <b>OGRID Name :</b> <input type="text"/> <b>Property Name :</b> <input type="text" value="MCA UNIT"/> <b>Pool Name :</b> <input type="text"/> <b>County :</b> <input type="text"/> <b>Well Type :</b> <input type="text"/> <b>Well Status :</b> <input type="text"/> <b>Permit :</b> <input type="text"/>			<b>Company</b> <b>Scheduler</b> <b>Data Action</b> <b>Admin Permits</b> <b>Hearing Orders</b> <b>Compliance</b>		<b>Inspection</b> <b>Mech Int Tests</b> <b>Inactive Detail</b> <b>Inactive Mgt.</b> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">R</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">U</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">N</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">G</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">I</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">S</div> </div>		<b>Well Master</b> <b>Well History</b> <b>Env. Inspections</b> <b>Incidents</b> <b>Pool Master</b> <b>Surf Facilities</b>		<b>Close all Functions and Exit RBDMS</b>  <div style="display: flex; justify-content: space-between;"> <span><b>Quick</b> </span> <span><b>Print</b> </span> </div>		
<div style="display: flex; justify-content: space-between;"> <div> <b>Section</b> <input type="text"/>  <b>Township</b> <input type="text"/>  <b>Range</b> <input type="text"/> </div> <div> <b>Land:</b> <input type="text"/>  <b>Dir.</b> <input type="text"/>  <b>Dir.</b> <input type="text"/> </div> </div>			<b>Clear Criteria Fields</b> <b>Apply Selection Criteria</b>		<b>Make User Table for Group</b> <b>Inspection, 'Sync',</b> <b>Schedule Prevent, Etc!</b>						
WELL FILTER SUB FORM											
API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf	UL	Se		
30-025-38988-00-00	MCA UNIT	421 ✓	CONOCOPHILLIPS COMP	O		Lea	F	P			
30-025-38989-00-00	MCA UNIT	420 ✓	CONOCOPHILLIPS COMP	O		Lea	F	A			
30-025-38987-00-00	MCA UNIT	419 ✓	CONOCOPHILLIPS COMP	O		Lea	F	M			
30-025-38986-00-00	MCA UNIT	418 ✓	CONOCOPHILLIPS COMP	O		Lea	F	M			
30-025-38985-00-00	MCA UNIT	417 ✓	CONOCOPHILLIPS COMP	O		Lea	F	M			
30-025-38984-00-00	MCA UNIT	416 ✓	CONOCOPHILLIPS COMP	O		Lea	F	N			
30-025-38983-00-00	MCA UNIT	415 ✓	CONOCOPHILLIPS COMP	O		Lea	F	N			
30-025-38982-00-00	MCA UNIT	414 ✓	CONOCOPHILLIPS COMP	O		Lea	F	O			
30-025-38981-00-00	MCA UNIT	413 ✓	CONOCOPHILLIPS COMP	O		Lea	F	B			
30-025-38980-00-00	MCA UNIT	412 ✓	CONOCOPHILLIPS COMP	O		Lea	F	B			
30-025-38856-00-00	MCA UNIT	411 ✓	CONOCOPHILLIPS COMP	O		Lea	F	C			
30-025-38979-00-00	MCA UNIT	410 ✓	CONOCOPHILLIPS COMP	O		Lea	F	O			
30-025-38978-00-00	MCA UNIT	409 ✓	CONOCOPHILLIPS COMP	O		Lea	F	L			
30-025-38977-00-00	MCA UNIT	408 ✓	CONOCOPHILLIPS COMP	O		Lea	F	P			
30-025-38038-00-00	MCA UNIT	407 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	L			
30-025-38860-00-00	MCA UNIT	406 ✓	CONOCOPHILLIPS COMP	O		Lea	F	D			
30-025-38859-00-00	MCA UNIT	405 ✓	CONOCOPHILLIPS COMP	O		Lea	F	C			
30-025-38975-00-00	MCA UNIT	404 ✓	CONOCOPHILLIPS COMP	O		Lea	F	M			
30-025-37940-00-00	MCA UNIT	403 ✓	CONOCOPHILLIPS COMP	O		Lea	F	G			
30-025-38855-00-00	MCA UNIT	402 ✓	CONOCOPHILLIPS COMP	O		Lea	F	L			
30-025-38974-00-00	MCA UNIT	401 ✓	CONOCOPHILLIPS COMP	O		Lea	F	F			
30-025-38973-00-00	MCA UNIT	400 ✓	CONOCOPHILLIPS COMP	O		Lea	F	L			
30-025-38972-00-00	MCA UNIT	399 ✓	CONOCOPHILLIPS COMP	O		Lea	F	K			
30-025-38971-00-00	MCA UNIT	398 ✓	CONOCOPHILLIPS COMP	O		Lea	F	C			
30-025-37939-00-00	MCA UNIT	397 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	E			
30-025-37976-00-00	MCA UNIT	396 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	L			
30-025-37900-00-00	MCA UNIT	395 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	E			
30-025-37931-00-00	MCA UNIT	394 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	D			
30-025-37879-00-00	MCA UNIT	393 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	H			
30-025-38854-00-00	MCA UNIT	392 ✓	CONOCOPHILLIPS COMP	O		Lea	F	K			
30-025-38853-00-00	MCA UNIT	391 ✓	CONOCOPHILLIPS COMP	O		Lea	F	H			
30-025-38852-00-00	MCA UNIT	390 ✓	CONOCOPHILLIPS COMP	O		Lea	F	E			
30-025-35142-00-00	MCA UNIT	387 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	K			
30-025-31100-00-00	MCA UNIT	386 ✓	CONOCOPHILLIPS COMP	I	A	Lea	F	F			
30-025-30731-00-00	MCA UNIT	385 ✓	CONOCOPHILLIPS COMP	O	P	Lea	F	O			
30-025-30491-00-00	MCA UNIT	384 ✓	CONOCOPHILLIPS COMP	O	A	Lea	F	E			

#### 4. Proposed cementing program:

For the cementing program a range is presented for the number of sacks of cement and for the bottom, top, and length of the lead slurries and tail slurries due to the variation in formation tops and planned TD for the planned / contemplated wells for which this Master Drilling Plan is intended.

##### 13-3/8" Conductor:

Cement to surface with ready mix or Class C Neat cement. TOC at surface.

##### 8-5/8" Surface Casing:

The intention for the cementing program for the Surface Casing is to:

- Place the Tail Slurry from the casing shoe to 300' above the casing shoe,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

Lead Slurry								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 85 deg F by UCA Method	
185 – 535 sx Class C + 6% bentonite + 2% CaCl <sub>2</sub> + 0.125% Polyflake  Excess = 170%	325 to 940	Surface	325 to 940	13.5	1.96	10.69	Time 12 hrs 18 hrs 24 hrs	Strength 316 psi 417 psi 506 psi

Tail Slurry								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 91 deg F by UCA Method	
220 sx Class C + 2% CaCl <sub>2</sub> + 0.125% Polyflake  Excess = 100%	625' to 1240'	325' to 940'	300'	14.8	1.35	6.36	Time 3 hrs 9 hrs 12 hrs 24 hrs 48 hrs	Strength 50 psi 500 psi 793 psi 1266 psi 2183 psi

Displacement: Fresh Water

**Note: In accordance with the Pecos District Conditions of Approval, we will Wait on Cement (WOC) for a period of not less than 18 hrs after placement of the cement on the Surface Casing in order to achieve at least 500 psi compressive strength in both the Lead Slurry and Tail Slurry cements prior to drilling out of the Surface Casing.**

### **5-1/2" Production Casing Cementing Program - Single Stage Cementing Option:**

The intention for the cementing program for the Production Casing – Single Stage Cementing Option is to:

- Place the Tail Slurry from the casing shoe to the top of the Grayburg formation,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water with an option to follow this with 1000 gallons SuperFlush 102 and 20 additional bbls Fresh Water.

Lead Slurry								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 113 deg F by Crush Method	
433 – 644 sx 50% Class C 50% POZ + 10% bentonite + 8 lb/sx Salt + 0.2% Fluid Loss Additive + 0.125% Polyflake	3270' to 3940'	Surface	3270' to 3940'	11.8	2.55	14.88	Time 12 hrs 24 hrs 48 hrs 72 hrs	Strength 100 psi 200 psi 245 psi 310 psi
Excess = 88% - 135% (based on caliper if available)								

Tail Slurry (this is a CO <sub>2</sub> resistant cement)								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 115 deg F by UCA Method	
150 – 285 sx 65% Class C 35% POZ + 0.4% Dispersant	4155' to 4705'	3270' to 3940'	636' to 885'	14.8	0.98	3.76	Time 5 hrs 56 min 8 hrs 12 min 24 hrs 48 hrs 72 hrs	Strength 50 psi 500 psi 2806 psi 4690 psi 5661 psi
Excess = 26% - 83% (based on caliper if available)								

Displacement: 2% KCL water with approximately 250 ppm gluteraldehyde biocide.

### **5-1/2" Production Casing Cementing Program - Two-Stage Cementing Option (for Loss of Circulation Events):**

We propose an option to use the two-stage cementing method for cementing the production casing if any loss of circulation events or heavy seepage is experienced while drilling the 7-7/8" hole. (see discussion in Item 3 above). The proposed two-stage cementing program would be as follows:

- Stage 1: Would place cement from the casing shoe to the stage tool.
- Stage 2: Would place cement from the stage tool to Surface.

#### **Stage 1:**

Spacer: 20 bbls Fresh Water with an option to follow this with 1000 gallons SuperFlush 102 and 20 additional bbls Fresh Water

Stage 1 – Lead Slurry: None

Stage 1 – Tail Slurry								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 113 deg F by Crush Method	
150 – 285 sx 65% Class C 35% POZ + 0.4% Dispersant	4155'	3270'	636'	14.8	0.98	3.76	Time	Strength
	to	to	to				5 hrs 56 min	50 psi
	4705'	3940'	885'				8 hrs 12 min	500 psi
							24 hrs	2806 psi
							48 hrs	4690 psi
							72 hrs	5661 psi
Excess = 26% - 83% based on caliper if available								

Displacement: A volume of Fresh Water equal to the capacity volume from the stage tool to the float collar, followed by brine based mud.

**5-1/2" Production Casing Cementing Program – Two-Stage Cementing Option with Stage Tool and External Casing Packers (for Water Flow Events):**

We propose an option to use the two-stage cementing method with a Stage Tool and two each External Casing Packers if any waterflow event is experienced while drilling the 7-7/8" hole as discussed above in Item 3. The proposed two-stage cementing program would be as follows:

- Stage 1: Would place cement from the casing shoe to the stage tool
- Stage 2: Would place cement from the stage tool to Surface.

**Stage 1:**

Spacer: 20 bbls Fresh Water with an option to follow this with 1000 gallons SuperFlush 102 and 20 additional bbls Fresh Water

Stage 1 – Lead Slurry								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 113 deg F by Crush Method	
77 – 363 sx 50% Class C 50% POZ + 10% bentonite + 8 lb/sx Salt + 0.2% Fluid Loss Additive + 0.125% Polyflake	3270' to 3940'	1670' to 3440'	500' to 1600'	11.8	2.55	14.88	Time 12 hrs 24 hrs 48 hrs 72 hrs	Strength 100 psi 200 psi 245 psi 310 psi
Excess = 126% - 234% based on caliper if available								

Stage 1 – Tail Slurry								
Volume (sx) & Recipe & Excess %	Bottom (ft MD)	Top (ft MD)	Length (ft)	Density (ppg)	Yield (cuft/sx)	Mix Wtr gal/sx	Compressive Strengths @ 113 deg F by Crush Method	
150 – 285 sx 65% Class C 35% POZ + 0.4% Dispersant	4155' to 4705'	3270' to 3940'	636' to 885'	14.8	0.98	3.76	Time 5 hrs 56 min 8 hrs 12 min 24 hrs 48 hrs 72 hrs	Strength 50 psi 500 psi 2806 psi 4690 psi 5661 psi
Excess = 26% - 83% based on caliper if available								

Displacement: A volume of Fresh Water equal to the capacity volume from the stage tool to the float collar, followed by brine based mud.