•	ust 2007) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT				Hessaa .	FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010 5. Lease Serial No.			
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.					NMNM0557371 6. If Indian, Allottee or Tribe Name				
SUBMIT IN TRIPLICATE - Other instructions on reverse side.						7. If Unit or CA/Agreement, Name and/or No.			
1. Type of Well						8. Well Name and No. AAO FEDERAL 2	6		
Image: Solution of Operator       Contact:       SORINA FLORES         APACHE CORPORATION       E-Mail: sorina.flores@apachecorp.com						9. API Well No. 30-015-42338-00-X1			
				b. (include area code) 10. Field and Pool, or Exploratory					
		, R., M., or Survey Description	<b>Ι</b>			11. County or Parish, a	and State		
Sec 1 T18S R27E NESW 2270FSL 1650FWL 32.463124 N Lat, 104.140710 W Lon				EDDY COUNTY, NM			΄, .NM		
. 12.	CHECK APPR	OPRIATE BOX(ES) TO	O INDICATI	ENATURE OF I	NOTICE, RI	EPORT, OR OTHEI	R DATA		
TYPE OF SUE	MISSION	·	<u>.</u>	TYPE O	FACTION	·	,		
🛛 Notice of Inte	nt	Acidize Alter Casing		-	Product Reclam	ion (Start/Resume)	<ul> <li>Water Shut-Off</li> <li>Well Integrity</li> </ul>		
🛛 🖸 Subsequent R	eport	Casing Repair	—	racture Treat lew Construction Recor			Other		
🗖 Final Abando	Final Abandonment Notice   Change Plans   Plans			g and Abandon g Back	. – .	arily Abandon	F D		
Apache propos	NATIONWIDE/	e csg/cmt/BOP program	as shown be				I OIL CONSERVA ARTESIA DISTRICT JUN 0 2 2014		
1. CSG PROG Hole Sz Depti Surf 17-1/2"	RAM: ALL CSG h OD Csg Wt 0-350' 13-3/8" 0-4600' 5-1/2"	JLATED TO SURF ON T IS NEW & API APPVD Collar Grade Clps B 48# STC H-40 1.12 17# LTC J-55 1.12	· .		R THE SURI	= csg:	JUN 0 2 2014 DEREGRIVED OF A PERMED OF A PERMED OF A PERMED		
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#### Additional data for EC transaction #245461 that would not fit on the form

#### 32. Additional remarks, continued

\*If lost circ is encountered while drlg 17-1/2" hole, 200sx CI C Thixotropic cmt (14.4wt, 1.55yld, 6.65gal/sk) may be pmpd ahead of the cmt slurry shown above. B.5-1/2" PROD (CMT TO SURF/20% EXCESS CMT): Lead: 410sx (35/65) Poz C w/5% Salt+ 0.25% R38+6% Bentonite (12.4wt, 2.1yld, 10.57gal/sk) Comp Strength: 12hr-589psi 24hr-947psi Tail: 270sx(50/50) Poz C w/5% Salt+0.25% R38+2% Bentonite (14.2wt, 1.28yld, 5.88gal/sk) Comp Strengths: 12hr-1379psi 24hr-2332psi C.PROPOSED CONTROL EQUIPMENT An 11" 3M psi WP BOP stack consisting of an annular bag type preventer, middle pipe rams, & bottom blind rams will be nippled up on the 13-3/8" surf csg head & tested to 70% of csg burst. The BOP will be utilized continuously until TD is reached. The max surf pressure is not expected to exceed 2000psi. BHP is calc to be approx 2024psi. All BOPs & associated equip will be tested per BLM Ops Order #2. The BOP will be operated & checked each 24-hr period & blind rams will be operated & checked when drill pipe is out of the hole. Function tests will be documented on daily drillers log. A 3000psi choke manifold w/3" panic line will be installed. A full opening stabbing valve & kelly cock will be on derrick floor in case of need. No abnormal pressures or temps are expected in this well. No nearby wells have encountered any well control problems. IN THE EVENT CMT IS NOT CIRC TO SURF ON THE PRIMARY CMT JOB FOR SURF CSG: 1. CSG PROGRAM: ALL CSG IS NEW & API APPVD Hole Sz Depth OD Csg Wt Collar Grade Clps Burst Tension Surf 17-1/2" 0-350' 13-3/8" 48# STC H-40 1.125 1.0 1.8 Interm 11" 0-400' 8-5/8" 24# STC J-55 1.125 1.0 1.8 Prod 7-7/8" 0-4600' 5-1/2" 17# LTC J-55 1.125 1.0 1.8 2. CMT PROGRAM A.13-3/8" SURF (CMT TO SURF/100% EXCESS CMT): Single Slurry: 420sx CI C w/1% CaCl2+0.25% R38(14.8wt, 1.34yld, 6.33gal/sk) Comp Strength: 12hr-813psi 24hr-1205psi If lost circ is encountered while drlg 17-1/2" hole, 200sx CI C Thixotropic cmt(14.4wt, 1.55yld, 6.65gal/sk) may be pmpd ahead of the cmt slury shown above. B.8-5/8" INTERM (CMT TO SURF/50% EXCESS CMT): Single Slurry: 220sx CI C w/1% CaCl2+0.25% R38 (14.8wt, 1.34yld, 6.33gal/sx) Single Slurry: 220sx Ci C w1% CaCl2+0.25% R38 (14.8wt, 1.34yid, 6.33gal/sx) Comp Strength: 12hr-813psi 12hr-1205psi C.5-1/2" PROD (CMT TO SURF/20% EXCESS CMT) Lead: 310sx (35/65) Poz C w/5% Salt+ 0.25% R38+6% Bentonite (12.4wt, 2.1yld, 10.57gal/sk) Comp Strength: 12hr-589psi 24hr-947psi Tail: 270sx(50/50) Poz C w/5% Salt+0.25% R38+2% Bentonite (14.2wt, 1.28yld, 5.88gal/sk) Comp Strengths: 12hr-1379psi 24hr-2332psi C.PROPOSED CONTROL EQUIPMENT on attachment

## Apache proposes to change the casing/cement/BOP program as shown below.

## In the event that cement IS circulated to surface on the primary cement job for the surface casing:

#### **1. Casing Program:** All casing is new & API approved

HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
17-1/2″	0' - 350'	13-3/8"	48#	STC	H-40	1.125	1.0	1.8
7-7/8″	0'-4600	5-1/2"	17# ·	LTC	J-55	1.125	1.0	1.8

### 2. CEMENT PROGRAM:

#### A. <u>13-3/8" Surface (Cmt to surf / 100% excess cmt)</u>:

<u>Single Slurry</u>: 420 sx Class C w/ 1% CaCl2 + 0.25% R38 (14.8 wt, 1.34 yld, 6.33 gal water/sk) Comp Strengths : **12 hr** – 813 psi **24 hr** – 1205 psi

If lost circulation is encountered while drilling the 17-1/2" hole, 200 sx Class C thixotropic cement (14.4 wt, 1.55 yld, 6.65 gal water/sk) may be pumped ahead of the cement slurry shown above.

#### B. <u>5-1/2" Production (Cmt to surf / 20 % excess cmt):</u>

Lead: 410 sx (35:65) Poz C w/ 5% Salt + 0.25% R38 + 6% Bentonite (12.4 wt, 2.1 yld, 10.57 gal water/sk) Compressive Strengths: **12 hr** – 589 psi **24 hr** – 947 psi

<u>Tail:</u> 270 sx (50:50) Poz C w/ 5% Salt + 0.25% R38 + 2% Bentonite (14.2 wt, 1.28 yld, 5.88 gal water/sk) Compressive Strengths: **12 hr** – 1379 psi **24 hr** – 2332 psi

#### 3. PROPOSED CONTROL EQUIPMENT

An 11" 3M psi WP BOP stack consisting of an annular bag type preventer, middle pipe rams, and bottom blind rams will be nippled up on the 13-3/8" surface casing head and tested to 70% of casing burst. The BOP will be utilized continuously until TD is reached. The maximum surface pressure is not expected to exceed 2000 psi. BHP is calculated to be approximately 2024 psi. All BOPs and associated equipment will be tested per BLM *Drilling Operations Order #2*. The BOP will be operated and checked each 24-hour period and the blind rams will be operated and checked when the drill pipe is out of the hole. Function tests will be documented on the daily driller's log. A 3000 psi choke manifold with a 3" panic line will be installed. A full opening stabbing valve & kelly cock will be on the derrick floor in case of need. No abnormal pressures or temperatures are expected in this well. No nearby wells have encountered any well control problems.

#### In the event that cement IS NOT circulated to surface on the primary cement job for the surface casing:

HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
17-1/2"	0' ~ 350'	13-3/8″	48#	STC	H-40	1.125	1.0	1.8
11″	0′ – 400′	8-5/8″	24#	STC	J-55	1.125	1.0	1.8
7-7/8″	0'-4600'	5-1/2"	17#	LTC	J-55	1.125	1.0	1.8

#### 1. Casing Program: All casing is new & API approved

## 2. CEMENT PROGRAM:

#### A. <u>13-3/8" Surface (Cmt to surf / 100% excess cmt):</u>

<u>Single Slurry</u>: 420 sx Class C w/ 1% CaCl2 + 0.25% R38 (14.8 wt, 1.34 yld, 6.33 gal water/sk) Comp Strengths : **12 hr** - 813 psi **24 hr** - 1205 psi

If lost circulation is encountered while drilling the 17-1/2" hole, 200 sx Class C thixotropic cement (14.4 wt, 1.55 yld, 6.65 gal water/sk) may be pumped ahead of the cement slurry shown above.

#### B. <u>8-5/8" Intermediate (Cmt to surf / 50% excess cmt):</u>

Single Slurry: 220 sx Class C w/ 1% CaCl2 + 0.25% R38 (14.8 wt, 1.34 yld, 6.33 gal water/sk)

AAO FEDERAL #26

Comp Strengths : 12 hr - 813 psi 24 hr - 1205 psi

#### C. <u>5-1/2" Production (Cmt to surf / 20 % excess cmt):</u>

Lead: 310 sx (35:65) Poz C w/ 5% Salt + 0.25% R38 + 6% Bentonite (12.4 wt, 2.1 yld, 10.57 gal water/sk) Compressive Strengths: 12 hr - 589 psi 24 hr - 947 psi

<u>Tail:</u> 270 sx (50:50) Poz C w/ 5% Salt + 0.25% R38 + 2% Bentonite (14.2 wt, 1.28 yld, 5.88 gal water/sk) Compressive Strengths: **12 hr** – 1379 psi **24 hr** – 2332 psi

## 3. PROPOSED CONTROL EQUIPMENT

An 11" 3M psi WP BOP stack consisting of an annular bag type preventer, middle pipe rams, and bottom blind rams will be nippled up on the 13-3/8" surface casing head and tested to 70% of casing burst. After intermediate casing is set and cemented the BOP will be nippled up on the casing spool and tested to 2000 psi. The BOPE will be utilized continuously until TD is reached. The maximum surface pressure is not expected to exceed 2000 psi. BHP is calculated to be approximately 2024 psi. All BOP's and associated equipment will be tested per BLM *Drilling Operations Order #2*. The BOP will be operated and checked each 24-hour period and the blind rams will be operated and checked when the drill pipe is out of the hole. Function tests will be documented on the daily driller's log. A 3000 psi choke manifold with a 3" panic line will be installed. A full opening stabbing valve & kelly cock will be on the derrick floor in case of need. No abnormal pressures or temperatures are expected in this well. No nearby wells have encountered any well control problems.

# CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Apache Corporation
LEASE NO.:	NMNM-0557371
WELL NAME & NO.:	AAO Federal 26
SURFACE HOLE FOOTAGE:	2270' FSL & 1650' FWL
LOCATION:	Section 01, T. 18 S., R 27 E., NMPM
COUNTY:	Eddy County, New Mexico
API:	30-015-42338

# The original COAs still stand with the following drilling modifications:

# I. DRILLING

# A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

## **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Yates formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies.

# B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible water flows in the Artesia Group Possible lost circulation in the Artesia Group, Grayburg, and San Andres.

<u>A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS</u> <u>REQUIRED IN HIGH CAVE/KARST AREAS.</u> THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH.

WHERE THE SURACE CASING HAD A SUCCESSFUL CEMENT JOB; IF LOST CIRCULATION (TOTAL LOSS) OCCURS WHILE DRILLING THE 7-7/8" PRODUCTION HOLE, THE CEMENT PROGRAM FOR THE 5-1/2" PRODUCTION CASING WILL NEED TO BE MODIFIED AND <u>THE BLM IS TO</u> <u>BE CONTACTED PRIOR TO RUNNING THE CASING.</u> A DV TOOL WILL BE REQUIRED.

- 1. The **13-3/8** inch surface casing shall be set at approximately **350** feet cemented to the surface. Fresh water mud to be used to setting depth.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - **b.** Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

## **Contingency intermediate casing:**

- 2. The **8-5/8** inch intermediate casing shall be set at approximately **400** feet and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement to surface. If cement does not circulate, contact the appropriate BLM office. Excess calculates to 22% - Additional cement may be required.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

# C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi (Installing a 3M testing to 2,000 psi).
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

# D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

# E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 052914