	UNITED STATES		05	OMB N	APPROVED O. 1004-0135 July 31, 2010
SUNDRY	JREAU OF LAND MANAGEME NOTICES AND REPORTS (	ON WELLS	•	5. Lease Serial No. NMNM119759	
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.				6. If Indian, Allottee or Tribe Name	
SUBMIT IN TRI	PLICATE - Other instructions	on reverse side.		7. If Unit or CA/Agree	ement, Name and/or No.
<ol> <li>Type of Well</li> <li>☑ Oil Well</li> <li>☑ Gas Well</li> <li>☑ Oth</li> </ol>	er	•		8. Well Name and No. BLUE JAY FEDER	
2. Name of Operator COG OPERATING LLC Contact: MAYTE X REYES E-Mail: mreyes1@concho.com			9. API Well No. 30-025-42338-00-X1		
3a. Address ONE CONCHO CENTER 60 MIDLAND, TX 79701-4287	0 W ILLINOIS AVENUE	hone No. (include area code	0 3 2015	10. Field and Pool, or WC-025 G08 S2	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)	AUG	03	11. County or Parish,	and State
Sec 18 T20S R35E SWSE 19 32.566295 N Lat, 103.495039			ECEIVED	LEA COUNTY,	NM
12. CHECK APPF	ROPRIATE BOX(ES) TO INDI	CATE NATURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION	·	ΤΥΡΕ Ο	F ACTION		<u> </u>
🛛 Notice of Intent	🗖 Acidize	Deepen	Product	ion (Start/Resume)	U Water Shut-Off
Subsequent Report	- 0	Fracture Treat	🗖 Reclam		UWell Integrity
		New Construction	Recomp		Other Change to Original A
Final Abandonment Notice	-	Plug and Abandon Plug Back	□ Tempor □ Water E	arily Abandon Disposal	PD
COG Operating LLC, respectf original approved APD.	inal inspection.) ully requests approval for the fo	llowing drilling changes	s to the	EOR	OVAL.
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to	llowing drilling changes vare top at p at 4052?. seal & 0.1%	E ATTA E ATTA ONDITI	CHED FOR ONS OF APP	ROVAL.
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34),	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 5:6 C blend w/ 5% salt, 5# Kols	llowing drilling changes vare top at p at 4052?. seal & 0.1%	E ATTA E ATTA ONDITI	CHED FOR ONS OF APP	ROVAL
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65.3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34), 14. I hereby certify that the foregoing is Comm	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 55:6 C blend w/ 5% salt, 5# Kols true and correct. Electronic Submission #310694 For COG OPER/ hitted to AFMSS for processing b	verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ	HII-Information Hobbs / A on 07/29/2015	System TISUAS083SED	ROVAL
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34), 14. Thereby certify that the foregoing is	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 55:6 C blend w/ 5% salt, 5# Kols true and correct. Electronic Submission #310694 For COG OPER/ hitted to AFMSS for processing b	verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ	Hobbs /A	System TISUA S008335ED ALYST	ROVAL
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65.3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34), 14. I hereby certify that the foregoing is Comm	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to vs. 5:6 C blend w/ 5% salt, 5# Kols For COG OPER For COG OPER hitted to AFMSS for processing b REYES	Verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ Title REGU Date 07/29/2	HI-Information Hobbs / A F on 07/29/2015 LATORY AN 2015	ISystem (15)AS0083SE) ALYST IL 3 2015	ROVAL.
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34), 14. Thereby certify that the foregoing is Comm Name (Printed/Typed) MAYTE X	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 5:6 C blend w/ 5% salt, 5# Kols 5:6 C blend w/ 5% salt, 5# Kols For COG OPER/ hitted to AFMSS for processing by REYES	Verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ Title REGU Date 07/29/2	All-Information Hobbs / A D on 07/29/2015 LATORY AN 2015	ISystem 1504 500835E) ALYST JL 3 2015 SE	ROVAL.
original approved APD.  1. Intermediate setting depth 5769?. DV/ECP tool placed a  2. Cement job will be as follou a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34),  14. I hereby certify that the foregoing is Comm Name(Printed/Typed) MAYTE X Signature (Electronic S	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to vs. 5:6 C blend w/ 5% salt, 5# Kols For COG OPER For COG OPER hitted to AFMSS for processing b REYES	Verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ Title REGU Date 07/29/2	All-Information Hobbs / A D on 07/29/2015 LATORY AN 2015	ISystem (15)AS0083SE) ALYST IL 3 2015	ROVAL.
original approved APD. 1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34), 14. Thereby certify that the foregoing is Comm Name (Printed/Typed) MAYTE X	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 55:6 C blend w/ 5% salt, 5# Kols For COG OPER For COG OPER For COG OPER Submission) THIS SPACE FOR FE	Verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ Title REGU Date 07/29/2 DERAL OR STATE	All-Information Hobbs / A D on 07/29/2015 LATORY AN 2015	ISystem 1504 500835E) ALYST JL 3 2015 SE	AMM/
original approved APD.  1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34),  14. I hereby certify that the foregoing is Comm Name(Printed/Typed) MAYTE X Signature (Electronic S Approved By Conditions of approval, if any, are attached certify that the applicant holds legal or equilibrium of the printed for equilibrium	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 55:6 C blend w/ 5% salt, 5# Kols For COG OPER/ hitted to AFMSS for processing b REYES Submission) THIS SPACE FOR FE	A verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ Title REGU Date 07/29/2 DERAL OR STATE Title Trant or t lease Office	ATORY AN 2015 OFFICE U BUTCKIE AUTORY AN OFFICE U BUTCKIE AUTORY	System 1150A S0083SED ALYST JL 3 2015 SE BAD FELD FFICE	AMM Ka
original approved APD.  1. Intermediate setting depth 5769?. DV/ECP tool placed a 2. Cement job will be as follow a. Stage 1 Lead: 400 sx 65:3 HR-601 (12.9/1.92), Tail: 200 sx C (14.8/1.34),  14. I hereby certify that the foregoing is Comm Name(Printed/Typed) MAYTE X Signature (Electronic S Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condu Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	ully requests approval for the fo changed to 5795? due to Delaw t 3952?, 100? above the reef to ws. 55:6 C blend w/ 5% salt, 5# Kols For COG OPER/ hitted to AFMSS for processing b REYES Submission) THIS SPACE FOR FE	A verified by the BLM We ATING LLC, sent to the y JENNIFER SANCHEZ Title REGU Date 07/29/2 DERAL OR STATE Title Title Title Title Title Title Title	All Information Hobbs / A Don 07/29/2015 LAT ORY AN 2015 OFFICE U BUTCKIP CARLS	ALYST JL 3 2015 SE BAD FELD OFFICE	r agency of the United

- ----

### Additional data for EC transaction #310694 that would not fit on the form

#### 32. Additional remarks, continued

Stage 2 Lead: 1310 sx C 65:35:6 C blend w/ 5% salt, 3# Kolseal & 0.1% HR-601 (12.9/1.92) Tail: 200 sx C (14.8/1.34) ,

3. Production Cement Change a. Lead: 1140 sx Tuned Lite w/ 2# kolseal, 1.5# salt, 1/4# D-Air 5000, 1/8# PEF, etc. (10.4/3.48), Tail: 1200 sx 50:50:2 Poz:H:Gel w/ 1% salt, 0.5% Halad-9 & 0.05% SA-1015 (14.4 / 1.24),

# PECOS DISTRICT CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	COG Operating, LLC.
LEASE NO.:	NMNM-119759
WELL NAME & NO.:	Blue Jay Federal 1H
SURFACE HOLE FOOTAGE:	0190' FSL & 2310' FEL
<b>BOTTOM HOLE FOOTAGE</b>	0330' FNL & 2260' FEL
	Section 18, T. 20 S., R 35 E., NMPM
COUNTY:	Lea County, New Mexico

# 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)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Bone Spring 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.
- 2. 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. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) 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. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

### Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. 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.

### **Capitan Reef**

Possibility of water flows in the Artesia Group, Salado, and Capitan Reef. Possibility of lost circulation in the Red Beds, Artesia Group, Rustler, Capitan Reef, and Delaware.

Abnormal pressures may be encountered within the 3<sup>rd</sup> Bone Spring Sandstone and Wolfcamp Formations.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1890 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
  - 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.

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

### **Special Capitan Reef requirements:**

If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 5795 feet, is:

# Operator has proposed DV tool at depth of 3952'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (575-393-3612) prior to tag of bottom plug, which must be a minimum of 200' in length. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **50 feet above the Capitan Reef** (Top of Capitan Reef estimated at 4571'). Operator shall provide method of verification.
- 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. In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).
- 3. 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.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 5. 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. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two 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.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

### D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

### E. DRILL STEM TEST

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

## F. 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 073115