Form	3160-5
(June	2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Carlsbad	Field	Offerse PPROVED
		 Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

OCD A TUBE Belial No. NMNM004825

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	6. If Indian, Allottee or Tribe Name	
SUBMIT IN TRIPLICATE - Other instructions on page 2			7. If Unit o	7. If Unit or CA/Agreement, Name and/or No.	
 Type of Well ☐ Gas Well ☐ Ot 	her		8. Well Nan PENNZ	ne and No. OIL 32 FED 111H	
2. Name of Operator Contact: CADE LABOLT MATADOR PRODUCTION COMPANYE-Mail: cade.labolt@matadorresources.com				9. API Well No. 30-015-44572-00-X1	
3a. Address ONE LINCOLN CENTER 540 DALLAS, TX 75240	VE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500 972-629-2158			nd Pool or Exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			11. County	or Parish, State	
Sec 33 T20S R29E NWNW 330FNL 220FWL 32.536251 N Lat, 104.087891 W Lon			EDDY	EDDY COUNTY, NM	
12. CHECK THE A	PPROPRIATE BOX(ES) TO	D INDICATE NATURE O	F NOTICE, REPORT,	OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION				
Notice of Intent	 Acidize Alter Casing 	Deepen Hydraulic Fracturing	Production (Start/Re	esume) 🔲 Water Shut-Off	
Subsequent Report	Casing Repair	New Construction	☐ Recomplete	🗖 Other	
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abando	Change to Original A	
_	Convert to Injection	Plug Back	□ Water Disposal	PD	
13. Describe Proposed or Completed Op If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final At determined that the site is ready for f	ally or recomplete horizontally, giv rk will be performed or provide the l operations. If the operation result bandonment Notices must be filed o inal inspection.	e subsurface locations and measu Bond No. on file with BLM/BIA s in a multiple completion or reco- only after all requirements, includi	ed and true vertical depths o Required subsequent repor npletion in a new interval, a ng reclamation, have been c	of all pertinent markers and zones. ts must be filed within 30 days Form 3160-4 must be filed once ompleted and the operator has	
BLM Bond No. NMB001079		1 Markla	Lamon Son	. Xan COAS	

Surety Bond No. RLB0015172

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The purpose of this sundry is to extend the lateral of the subject well (API# 30-015-44572) from 1 mile to 2 mile in length.

Please see the attached C102 to revise the SHL of Matador's Pennzoil 32 Fed 111H from 330?' FNL and 220' FWL of Sec. 33 T20S R29E to 570' FNL and 310' FWL of Sec. 33 T20S R29E. This is within the previously approved surface disturbance footprint.

NM OIL CONSERVATION ARTESIA DISTRICT AUG 21 2019

Per Matador's conversation with Raymond Podany on March 7, 2019, please see attached C102 to revise the pool of Matador's Pennzoil 32 Fed 111H well from the Getty; Bone Spring (Pool Code 27470) to 5-1

D	Er	E 71	10	

NRS AB 7-25-19 U	ISE Existing CA	oA's	RECEIVED	
F	ic Submission #474723 verifie or MATADOR PRODUCTION C	d by the BLM Well Information System OMPANY, sent to the Carlsbad ANDY VIGIL on 07/24/2019 (19CV0080SE)	_	
Name (Printed/Typed) CADE LABOLT		Title ASSOCIATE LANDMAN		
Signature (Electronic Submission)		Date 07/23/2019	·	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE				
_Approved By	<u>k</u>	Title AFM - (4M	87/39/2019 Date	
Conditions of approval, if any, are attached. Approval certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operation	o those rights in the subject lease	Office TD		
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) ** BLM REVISED **				

NOCIOZAttachel Ref 10-25-19

Additional data for EC transaction #474723 that would not fit on the form

32. Additional remarks, continued

the Burton Flat East; Upper Wolfcamp (Pool Code 98315). This is to place the subject well into the correct oil pool per NMOCD standards.

Matador requests the name of the Pennzoil 32 Fed 111H be changed to the Pennzoil 3231 Fed Com 222H

Please see the attached C102 to revise the BHL of Matador's Pennzoil 32 Fed 111H from 330' FNL and 240' FWL of Sec. 32 T20S R29E to 1663' FNL and 60' FWL of Sec. 31 T20S R29E. The BHL given represents the terminus of the well. The last perforation point will be 1663' FNL and 100' FWL lying within the S2N2 of Sec. 31 T20S R29E.

Mud

Matador requests to change production hole section mud program to OBM.

Name Hole Size Mud Weight Visc Fluid Loss Type Mud Surface 26" 8.40 28 NC FW Spud Mud Intermediate 1 17-1/2" 10.00 30-32 NC Brine Water Intermediate 2 12-1/4" 8.4-8.6 28-30 NC FW Production 8-3/4" 8.5-9.5 30-55 NC Cut brine/OBM

Matador requests a variance for the use of a diverter along with a 2000 psi annular to be installed after running 20" surface casing.

Matador requests the option to cut off 20? SOW wellhead and run 13-3/8? SOW multi-bowl wellhead system once 1st intermediate string is run and cemented.

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8? or 9-5/8? casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100? above the loss zone to give the option to pump cement as either a single stage or two stage.

Example:

Assuming DV tool is set at 1500? MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1: Lead 695 1.78 13.5 Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM Tail 288 1.35 14.4 Class C + 5% NaCl + LCM 100% excess, TOC = 0? MD

Stage 2: Lead 350 1.78 13.5 Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM 100% excess, TOC = 0? MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MATADOR PRODUCTION COMPANY LEASE NO.: NMNM004825 COUNTY: EDDY

PENNZOIL 3231 FED COM 135H

LOCATION: Section 33, T.20 S., R.29 E., NMPM SURFACE HOLE FOOTAGE: 600'/N & 280'/W BOTTOM HOLE FOOTAGE: 996'/S & 60'/W

PENNZOIL 3231 FED COM 222H

LOCATION: Section 33, T.20 S., R.29 E., NMPM SURFACE HOLE FOOTAGE: 570'/N & 310'/W BOTTOM HOLE FOOTAGE: 1663'/S & 60'/W

PENNZOIL 3231 FED COM 221H

LOCATION: Section 33, T.20 S., R.29 E., NMPM SURFACE HOLE FOOTAGE: 570'/N & 280'/W BOTTOM HOLE FOOTAGE: 339'/S & 60'/W

PENNZOIL 3231 FED COM 205H LOCATION: Section 33, T.20 S., R.29 E., NMPM SURFACE HOLE FOOTAGE: 600'/N & 310'/W BOTTOM HOLE FOOTAGE: 996'/S & 60'/W

ALL PREVIOUS COAs STILL APPLY.

A. CASING

Casing Design:

- 1. The 20 inch surface casing shall be set at approximately 400 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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 will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - 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.
- 2. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:

Option 1 (Single Stage):

• 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 cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:

 Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on compart (WOC) time for a primary compart ich is to include.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 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.
- 3. The minimum required fill of cement behind the 9-5/8 inch production casing is:

Option 1 (Single Stage):

• 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 cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. 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.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 2nd intermediate casing shoe shall be **3000 (3M)** psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL 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)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County

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

Lea County

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

- 1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. 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 are located, this does not include the dog house or stairway area.

- 3. 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.
- A. CASING
- 1. 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. 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.

- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. 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. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 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. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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.

C. 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.

D. 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.

NMK7302019