Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

5. Lease Serial No. NMNM114979

| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or the large of the lead of the large of | | | | | NMNM114979 | - T-1 | |
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| abandoned wel | لم ۱ | | or Iribe | e Name | | | |
| SUBMIT IN 1 | RIPLICATE - Other inst | ructions on p | page 2 | rresia | 7. If Unit or CA/Agr NMNM137096 | eement, X | Name and/or No. |
| 1. Type of Well | | | | | Well Name and No. Multiple-See Attached | | |
| ☑ Oil Well ☐ Gas Well ☐ Other | | | | | | acricu | |
| 2. Name of Operator Contact: SARAH CHAPMAN OXY USA INCORPORATED E-Mail: SARAH_CHAPMAN@OXY.COM | | | | | 9. API Well No. MultipleSee | Attache | ed |
| 3a. Address 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 3b. Phone No. (include area code) Ph: 713-350-4997 | | | | | 10. Field and Pool of MESA VERDE | | |
| 4. Location of Well (Footage, Sec., T. | , R., M., or Survey Description) | | | | 11. County or Parish | , State | |
| MultipleSee Attached | | | | | EDDY COUNT | Y, NM | |
| 12. CHECK THE AF | PROPRIATE BOX(ES) | TO INDICAT | TE NATURE O | F NOTICE, | REPORT, OR OT | HER I | DATA |
| TYPE OF SUBMISSION | | | TYPE O | F ACTION | | | |
| | ☐ Acidize | ☐ Deep | en | ☐ Producti | on (Start/Resume) | 0 | Water Shut-Off |
| ☑ Notice of Intent | ☐ Alter Casing | ☐ Hydi | raulic Fracturing | ☐ Reclama | ition | | Well Integrity |
| ☐ Subsequent Report | □ Casing Repair | □ New | Construction | □ Recomp | lete | | Other |
| ☐ Final Abandonment Notice | ☐ Change Plans | Plug | and Abandon | □ Tempora | arily Abandon | PD | ange to Original A |
| | Convert to Injection | ☐ Plug | Back | ☐ Water D | isposal | | |
| If the proposal is to deepen directional Attach the Bond under which the work following completion of the involved testing has been completed. Final Addetermined that the site is ready for final COXY USA Inc. respectfully required. | k will be performed or provide operations. If the operation res pandonment Notices must be file inal inspection. | the Bond No. on sults in a multiple ed only after all r | file with BLM/BIA e completion or rece equirements, include | A. Required sub ompletion in a n | sequent reports must b ew interval, a Form 31 | e filed v 60-4 m | within 30 days ust be filed once |
| The bulk sundry request for sithe DV tool placement on all s | ix wells and to change the | nroduction s | tring on wells 1 | AH and 19H | | REC | EIVED |
| The wells related to this sundr | • | (| scepted for rec | MA MANO | CD A | IIG Å | 7 2018 |
| Mesa Verde BS Unit 16H - 30 Mesa Verde BS Unit 17H - 30 | | ^ | | | | iou (| " ZUIÖ |
| Mesa Verde BS Unit 18H - 30 Mesa Verde BS Unit 19H - 30 Mesa Verde BS Unit 20H - 30 Mesa Verde BS Unit 21H - 30 | 01544549 - NMNM11497 01544548 - NMNM11497 01544547 - NMNM11497 | 9 | SEE ATTA DITIONS | CHED FOOF APPR | OR DISTRIC | T II-AJ | RTESIA O.C.D. |
| 14. I hereby certify that the foregoing is | Electronic Submission #4 | INCORPORA | TEĎ, sent to the | e Carlsbad | - | | |
| Name (Printed/Typed) DAVID ST | EWART | | Title SR. RE | GULATORY | ADVISOR | | |
| Signature (Electronic S | Submission) | | Date 07/19/2 | 2018 | | | |
| | THIS SPACE FO | R FEDERA | L OR STATE | OFFICE US | SE | | |
| | | | | | | | Date 07/40/0040 |
| _Approved_By_MUSTAFA_HAQUE_ | | | TitlePETROLE | <u>EUM ENGINE</u> | <u>:ER</u> | | Date 07/18/2018 |
| Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu | iitable title to those rights in the | not warrant or subject lease | Office Carlsba | ad | | | |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent | U.S.C. Section 1212, make it a statements or representations as | crime for any pe to any matter wi | rson knowingly and thin its jurisdiction | d willfully to ma | ke to any department | or agenc | y of the United |

Additional data for EC transaction #427939 that would not fit on the form

Wells/Facilities, continued

| Agreement NMNM137096X | Lease NMNM114979 | Well/Fac Name, Number MESA VERDE BS UNIT 16 | API Number 30-015-44551-00-X1 | Location Sec 13 T24S R31E SESE 170FSL 855FEL 32.210583 N Lat. 103.725746 W Lon |
|--------------------------|---------------------|-------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|
| NMNM137096X | NMNM114979 | MESA VERDE BS UNIT 17 | 30-015-44550-00-X1 | Sec 13 T24S R31E SESE 170FSL 885FEL 32.210583 N Lat. 103.725838 W Lon |
| NMNM137096X | NMNM114979 | MESA VERDE BS UNIT 18 | 30-015-44549-00-X1 | Sec 13 T24S R31E SWSE 170FSL 2631FEL 32 210583 N Lat, 103.731483 W Lon |
| NMNM137096X | NMNM114979 | MESA VERDE BS UNIT 19 | 30-015-44548-00-X1 | Sec 13 T24S R31E SESW 170FSL 2623FWL 32.210583 N Lat, 103.731583 W Lon |
| NMNM137096X | NMNM114979 | MESA VERDE BS UNIT 20 | 30-015-44547-00-X1 | Sec 13 T24S R31E SWSW 170FSL 878FWL 32.210587 N Lat, 103.737221 W Lon |
| NMNM137096X | NMNM114979 | MESA VERDE BS UNIT 21 | 30-015-44546-00-X1 | Sec 13 T24S R31E SWSW 170FSL 848FWL 32.210587 N Lat, 103.737320 W Lon |

32. Additional remarks, continued

The revised casing program reflects the change from tapered production string (5.5" X 4.5")on the 18H and 19H to long string of all 5.5" production casing. All depths are representative of the Mesa Verde BS Unit 14H.

Oxy USA Inc. - Mesa Verde Unit - Casing Change and DV Tool Adjust

1. Bulk Sundry Details

This is a bulk sundry request for ten Mesa Verde Unit wells in sections 13. This sundry is to change the DV tool placement on all wells below and to change the production casing string on the 18H, and 19H. The wells related to this sundry request are:

| Well Name | API | Lease Number |
|------------------------|------------|--------------|
| Mesa Verde BS Unit 16H | 3001544551 | NMNM114979 |
| Mesa Verde BS Unit 17H | 3001544550 | NMNM114979 |
| Mesa Verde BS Unit 18H | 3001544549 | NMNM114979 |
| Mesa Verde BS Unit 19H | 3001544548 | NMNM114979 |
| Mesa Verde BS Unit 20H | 3001544547 | NMNM114979 |
| Mesa Verde BS Unit 21H | 3001544546 | NMNM114979 |

Information remaining the same from the original APD will not be included here. The information below is based on the Mesa Verde BS Unit 14H.

2. Casing Program

The revised casing program below reflects the change from a tapered production string (5.5" x 4.5") on the 18H, and 19H to a long string of all 5.5" production casing. The depths are representative of the Mesa Verde BS Unit 14H which was included in a similar sundry.

| Hala | Casing | interval | Csg. | Weight | | _ | SF | SF | Body | Joint SF |
|-------------------|--------------|----------|--------------|--------|-------|-------|----------|-------|---------------|----------|
| Hole Size (in) | From (ft) | To (ft) | Size (in) | (ibs) | Grade | Conn. | Collapse | Burst | SF Tension | Tension |
| 14.75 | 0 | 970 | 10.75 | 40.5 | J55 | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| 9.875 | 0 | 9797 | 7.625 | 26.4 | L80 | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| 6.75 | 0 | 15671 | 5.5 | 20 | P-110 | DQX | 1.125 | 1.2 | 1.4 | 1.4 |

SF Values will meet or exceed

Bouyant

Bouyant

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open-hole section.

3. Cementing Program

Oxy USA Inc. - Mesa Verde Unit - Casing Change and DV Tool Adjust

The cementing volumes below are calculated for the Mesa Verde BS Unit 14H based on the casing scheme in Section 1. The DV tool placement at 4,693ft is 50ft into the Lamar/Delaware. We are requesting to change the DV tool set point to this depth for all wells listed in Section 1. This is the anticipated set depth, but the drilling engineer will adjust final set position to meet first and second stage cementing objectives based on well conditions. The intermediate first and second stage volumes in the table below are representative of all wells listed in Section 1 with the new DV tool placement.

| Casing | Slurry | #Sks | Wt. (Lb/gal) | Yld ft3/sack | H20 gal/sk | 500# Comp. Strength | Slurry Description |
|---------------------------|--------|----------|-----------------|-----------------|---------------|---------------------------|-------------------------------------------------------|
| Surface | Tail | 961 | 14.8 | 1.33 | 6.365 | 5:26 | Accelerator |
| 1st Stage | Lead | 420 | 10.2 | 2.58 | 11.568 | 6:59 | Retarder, Extender, Dispersant |
| Intermediate | Tail | 160 | 13.2 | 1.61 | 7.804 | 7:11 | Retarder, Dispersant, Salt |
| | | <u> </u> | DV | //ECP Tool | @ 4,693 | ft ft | |
| 2nd Stage Intermediate | Tail | 1,521 | 13.6 | 1.67 | 8.765 | 7:32 | Extender. Accelerator, Dispersant |
| Production Liner | Tail | 450 | 13.2 | 1.38 | 6.686 | 3:49 | Retarder, Dispersant, Fluid Loss Control, Extender |

| Casing String | Top of Lead (ft) | Bottom of Lead (ft) | Top of Tail (ft) | Bottom of Tail (ft) | % Excess Lead | % Excess Tail |
|-------------------------------------|------------------------|---------------------------|---------------------|---------------------------|---------------------|---------------------|
| Surface | N/A | N/A | 0 | 970 | N/A | 100% |
| 1st Stage Intermediate Casing | 4593 | 8797 | 8797 | 9797 | 20% | 20% |
| 2nd Stage Intermediate Casing | N/A | N/A | 0 | 4693 | N/A | 150% |
| Production Casing | N/A | N/A | 9297 | 15671 | N/A | 15% |

PERFORMANCE DATA

TMK UP DQX Technical Data Sheet

5.500 in

20,00 lbs/ft

P-110

| Tubular Parameters | | | | | | |
|--------------------|-------|--------|--|--|--|--|
| Size | 5.500 | in | | | | |
| Nominal Weight | 20.00 | lbs/ft | | | | |
| Grade | P-110 | | | | | |
| PE Weight | 19.81 | lbs/ft | | | | |
| Wall Thickness | 0.361 | in | | | | |
| Naminal ID | 1 770 | in | | | | |

 Wall Thickness
 0.361
 in

 Nominal ID
 4.778
 in

 Drift Diameter
 4.653
 in

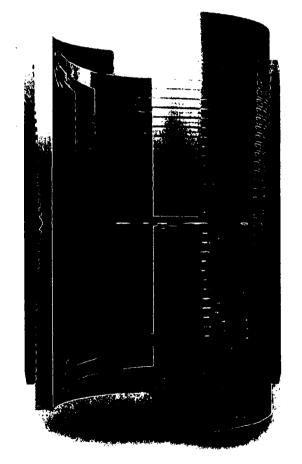
 Nom. Pipe Body Area
 5.828
 in²

| Minim | um Yield | 110,000 | psi |
|--------|------------------------|---------|-----|
| Minim | um Tensile | 125,000 | psi |
| Yield | Load | 641,000 | lbs |
| Tensi | e Load | 729,000 | lbs |
| Min. I | nternal Yield Pressure | 12,600 | psi |
| Collap | se Pressure | 11.100 | psi |
| | | • | • |

| Connection Parameters | | | | | | |
|------------------------------|---------|-----------------|--|--|--|--|
| Connection OD | 6.050 | in | | | | |
| Connection ID | 4.778 | in | | | | |
| Make-Up Loss | 4.122 | in | | | | |
| Critical Section Area | 5.828 | in [,] | | | | |
| Tension Efficiency | 100.0 | o _n | | | | |
| Compression Efficiency | 100.0 | % | | | | |
| Yield Load In Tension | 641.000 | lbs | | | | |
| Min. Internal Yield Pressure | 12.600 | psi | | | | |
| Collapse Pressure | 11.100 | psi | | | | |

| Make-Up Torques | | |
|---------------------|--------|--------|
| Min. Make-Up Torque | 11.600 | ft-lbs |
| Opt. Make-Up Torque | 12 900 | ft-lbs |
| Max Make-Up Torque | 14.100 | ft-lbs |
| Yield Torque | 20,600 | ft-lbs |

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NOTE

The content of fine 1s, timical first Sheet in for honerals form that a continuous of parameter performance or imply fitness for a participar purpose. This is in completed onling probable in a continuent considering the specific installistic and interaction participation at the first specific installistic and months the latest information force on the force of the continuence of the first specific interaction and the first specific force on the first discussion there are the first specific force of the continuence of of the continuenc



IPSCO

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

Mesa Verde BS Unit 16H – Multiple Wells NMNM114979 Oxy USA

All previous COAs still apply except for the following:

A. CASING

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

1. The minimum required fill of cement behind the 7 5/8 inch intermediate casing is:

Operator has proposed a contingency DV tool at 4693'. If operator circulates cement on the first stage, operator is approved to inflate the ACP and run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will inflate ACP and proceed with the second 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. Excess calculates to 21% additional might be required.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 2. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement should tie-back at least 100 feet into previous casing string.
 Operator shall provide method of verification. Excess calculates to 14% additional cement will be required.

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

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.
- 2. Wait on cement (WOC) for Potash Areas: 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 24 hours. WOC time will be recorded in the driller's log.
- 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

- 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.