Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMECT arishad Field Office In Indian, Allottee or Tribe Name abandoned well. Use form 3160-3 (APD) for such proposals.

| apandoned wei | i. Use iuriii 3100-3 (AF) | b) for such p | noposais. | Ì | , | | | |
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| SUBMIT IN 1 | 7. If Unit or CA/Agree | Unit or CA/Agreement, Name and/or No. | | | | | | |
| 1. Type of Well Soil Well Gas Well Oth | ner | | | | 8. Well Name and No. CYPRESS 34 FE | | | |
| 2. Name of Operator Contact: DAVID STEWART OXY USA INCORPORATED E-Mail: david_stewart@oxy.com | | | | | 9. API Well No. 30-015-35053-00-S1 | | | |
| 3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521 | 110 | . (include area code) 5.5717 | | 10. Field and Pool or I CEDAR CANYO | Exploratory Area DN-BONE SPRING | | | |
| 4. Location of Well (Footage, Sec., T. | , R., M., or Survey Description, | | | | 11. County or Parish, | State | | |
| Sec 34 T23S R29E SESE 460 | PSL 660FEL | | | | EDDY COUNTY | /, NM | | |
| 12. CHECK THE AF | PROPRIATE BOX(ES) | TO INDICA | TE NATURE O | F NOTICE, | REPORT, OR OTH | HER DATA | | |
| TYPE OF SUBMISSION | · · · · · · · · · · · · · · · · · · · | ······································ | TYPE OF | ACTION | | | | |
| Nation of Intent | ☐ Acidize | ☐ Dee | pen | ☐ Producti | on (Start/Resume) | ☐ Water Shut-Off | | |
| ☑ Notice of Intent | ☐ Alter Casing | ☐ Hyd | raulic Fracturing | ☐ Reclamation | | ■ Well Integrity | | |
| ☐ Subsequent Report | Casing Repair | □ New Construction | | ☐ Recomplete | | ⊠ Other | | |
| ☐ Final Abandonment Notice | ☐ Change Plans | ☐ Plug and Abandon | | ☐ Temporarily Abandon | | Workover Operations | | |
| | Convert to Injection | 🗖 Plug | g Back | □ Water D | isposal | | | |
| Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for final that the sit | operations. If the operation repandonment Notices must be filter in all inspection. The unit. O WH, NU BOP. POOH was a set a paper approximately 81 approximately 82 approximately 82 approximately 83 approximately 84 approximately 85 approximately 84 approximately 85 approximately 85 approximately 86 approxima | sults in a multipled only after all formal with the second | SEE A ct to sea Carefund clowed by 4-1/2" .5#, Calc TOC 86 liner, in 23 stage 4-11700', see at | TTACI OFFICIAL 11.6# P110 050'. es w/ zone tached for | ew interval, a Form 316, have been completed a HED FOR S OF APPRI FJ NM OIL CON ARTESIA AUG 2 | OVAL SERVATION DISTRICT 1 2017 | | |
| | Electronic Submission #3 | INCORPORA | TED, sent to the | Carlsbad | System | A ELJ | | |
| Name (Printed/Typed) DAVID ST | Title REGUL | ATORY AD | /ISOR | | | | | |
| Signature (Electronic S | | | Date 06/12/20 | | | | | |
| | THIS SPACE FO | OR FEDERA | L OR STATE | OFFICE US | 6E | | | |
| Approved By MUSTAFA HAQUE Conditions of approval, if any, are attached | TitlePETROLE | UM ENGINE | ER | Date 08/16/201 | | | | |
| certify that the applicant holds legal or equ which would entitle the applicant to condu | | outjeet teast | Office Carlsbac | d | | | | |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s | | | | willfully to ma | ke to any department or | agency of the United | | |

Additional data for EC transaction #378706 that would not fit on the form

32. Additional remarks, continued

detail.

- 6. After frac, drill out plugs, log well (tracers will be used in later stages w/ coiled tubing and then flow back and test.
- 7. After flow back, turn well over to operations, Shoot and recover 4-1/2" casing @ approximately 8050' to be able to utilize larger artificial lift for life of well.

Cypress 34 Fed 1 30-015-35053 Oxy USA Conditions of Approval

Notify BLM at 575-393-2822 (Eddy County) a minimum of 24 hours prior to commencing work.

Work to be completed by November 16, 2017.

- 1. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.
- 2. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 3. Surface disturbance beyond the originally approved pad must have prior approval.
- 4. Closed loop system required.
- 5. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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.
- 6. Operator to have H2S monitoring equipment on location.
- 7. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 8. Subsequent sundry required detailing work done, a C-102 form, and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.
- 9. See attached for General Plugback Guidelines

MHH 08162017

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

Permanent Abandonment of Production Zone Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

- 1. Plug back operations shall commence within <u>ninety (90)</u> days from this approval. If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.
- 2. <u>Notification</u>: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- 5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

- 6. <u>Subsequent Plug back Reporting:</u> Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.** If plugging back to a new zone submit a Completion Report, form 3160-4 with the Subsequent Report.
- 7. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

OXY USA inc. - Current Cypress 34 Federal #1 API No. 30-015-35053

South Base: 2936' Compon: 5288

Bone Spring: 6916'

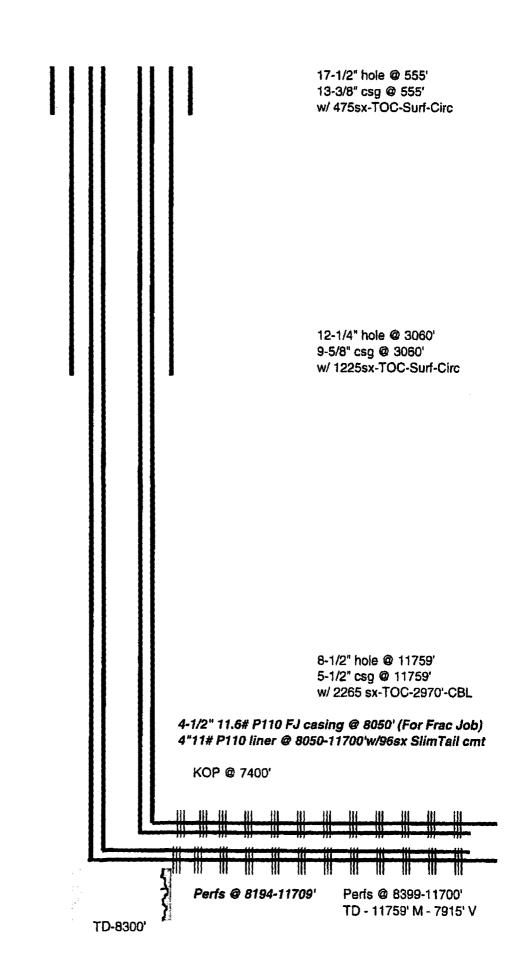
17-1/2" hole @ 555' 13-3/8" csg @ 555' w/ 475sx-TOC-Surf-Circ 12-1/4" hole @ 3060' 9-5/8" csq @ 3060' w/ 1225sx-TOC-Surf-Circ 8-1/2" hole @ 11759' 5-1/2" csg @ 11759' w/ 2265 sx-TOC-2970'-CBL KOP @ 7400' いけて Perfs @ 8399-11700'

TD-8300'

TD - 11759' M - 7915' V

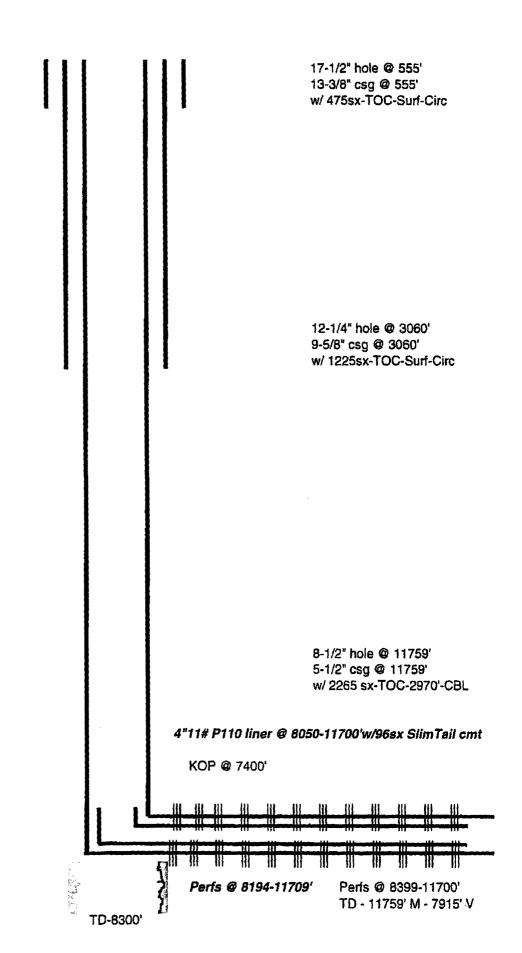
200sx @ 7817-7217'

OXY USA Inc. - Proposed Cypress 34 Federal #1 API No. 30-015-35053



200sx @ 7817-7217'

OXY USA Inc. - Final Cypress 34 Federal #1 API No. 30-015-35053



200sx @ 7817-7217'



OXY USA INC.

RECOMPLETE HYDRAULIC FRACTURING PROCEDURE CYPRESS 34 FEDERAL 1H

| | Revision No: | 1 |
|---|----------------|------------|
| | Revision Date: | 06/12/2017 |
| 1 | Rig Type: | |
| | Page No: | |
| _ | | |

| PLUGS AND PERFORATIONS | Cypress 34 | | _ | | |
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| | | | | Interval 3 Ph | ıg |
| | | 6 | 6 | 6 | |
| Stage 1Perfs. 3 guns loaded @ 60 degree phasing | Тор | 11604 | 11655.67 | 11707 34 | 11734 |
| | Bottom | 11605.67 | 11657.34 | 11709.01 | 11736 |
| Stage 2 Perfs, 3 guns loaded @ 60 degree phasing | Top | 11449 | 11500.67 | 11552.34 | 11579 |
| | Bottom | 11450.67 | 11502.34 | 11554.01 | 11581 |
| Stage 3 Perfs, 3 guns loaded @ 60 degree phasing | Тор | 11294 | 11345.67 | 11397.34 | 11424 |
| ouges tells, signification con active prinsing | Bottom | 11295.67 | 11347.34 | 11399.01 | 11426 |
| Stage 4 Perfs, 3 guns loaded @ 60 degree phasing | Тор | 11139 | 11190.67 | 11242.34 | 11269 |
| omige 1 1 cryo, o game todada e ao acy tee primaring | Bottom | 11140.67 | 11192.34 | 11244.01 | 11271 |
| Stage 5Perfs. 3 guns loaded @ 60 degree phasing | Тор | 10984 | 11035.67 | 11087.34 | 11114 |
| and a color of and wanted to a dog, to product | Bottom | 10985.67 | 11037.34 | 11089.01 | 11116 |
| Stage 6 Perfs. 3 guns loaded @ 60 degree phasing | Тор | 10829 | 10880.67 | 10932.34 | 10959 |
| Surge of Erist Sydn's located to de active pricating | Bottom | 10830.67 | 10882.34 | 10934.01 | 10961 |
| Stage 7 Perfs, 3 guns loaded @ 60 degree phasing | Top | 10674 | 10725.67 | 10777.34 | 10804 |
| suge / Terjs, s guits loaded & ou degree pricing | Bottom | 10675.67 | 10727.34 | 10779.01 | 10806 |
| Stage 8 Perfs, 3 guns loaded @ 60 degree phasing | Top | 10519 | 10570.67 | 10622.34 | 10649 |
| Stage of erist by una loaded & ov degree pridaring | Bottom | 10520.67 | 10572.34 | 10624.01 | 10651 |
| Stage 9 Perfs, 3 guns loaded @ 60 degree phasing | Top | 10364 | 10415.67 | 10467.34 | 10494 |
| Stage 9 Ferjs, 9 gains loaded & ov degree pridsing | Bottom | 10365.67 | 10417.34 | 10469.01 | 10496 |
| Stage 10 Perfs, 3 guns loaded @ 60 degree phasing | Top | 10209 | 10260.67 | 10312.34 | 10339 |
| suge to reifs, s gans landen & ov degree plusing | Bottom | 10210.67 | 10262.34 | 10314.01 | 10337 |
| Stage 1 I Perfs, 3 guns loaded @ 60 degree phasing | Top | 10054 | 10105.67 | 10157.34 | 10184 |
| Salge 11 Ferjs, 5 gans loaded & oo degree prasmy | Bottom | 10055.67 | 10103.37 | 10159.01 | 10186 |
| Stage 12 Perfs, 3 guns loaded @ 60 degree phasing | | 9899 | 9950.67 | 10002.34 | 10029 |
| stage 12 Perjs, 3 ffuns waden @ 60 degree phasing | Top Bottom | 9900.67 | 9952.34 | | 10023 |
| Crana 12 Back 2 avera haded @ 60 danner shadun | | 9744 | 9795,67 | 10004.01 9847.34 | 9874 |
| Stage 13 Perfs, 3 guns haded @ 60 degree phasing | Top Battom | | | | |
| Constituted and Colors and Advanced | | 9745.67 9589 | 9797.34 | 9849.01 | 9876 9719 |
| Stage 14 Perfs, 3 guns loaded @ 60 degree phasing | Тор | | 9640.67 | 9692.34 | |
| Charles of the Control of the Contro | Bottom | 9590.67 | 9642.34 | 9694.01 | 9721 |
| Stage 15 Perfs, 3 guns loaded @ 60 degree phasing | Top | 9434 | 9485.67 | 9537,34 | 9564 |
| Charles Towns Incided & Co. downson the state | Bottom | 9435.67 | 9487,34 9330,67 | 9539.01 | 9566 |
| Stage 16 Perfs, 3 guns loaded @ 60 degree phasing | Top | 9279 | | 9382 34 | 9409 |
| Stage 17 Perfs, 3 guns baded @ 60 degree phasing | Bottom Top | 9280.67 9124 | 9332.34 9175.67 | 9384,01 9227.34 | 9411 9254 |
| surge 17 Peris, 3 guns waden @ 60 degree phasing | - | | | | |
| Company to Daylor 2 minus landed to 40 days on the whole | Bottom | 9125.67 | 9177.34 | 9229.01 | 9256 |
| Stage 18 Perfs, 3 guns loaded @ 60 degree phasing | Top | 8969 | 9020.67 | 9072.34 | 9099 |
| | Bottom | 8970.67 | 9022.34 | 9074.01 | 9101 |
| Stage 19 Perfs, 3 guns loaded @ 60 degree phasing | Тор | 8814 | 8865.67 | 8917.34 | 8944 |
| | Bottom | 8815.67 | 8867.34 | 8919.01 | 8946 |
| Stage 21 Perfs, 3 guns loaded @ 60 degree phasing | Тор | 8659 | 8710.67 | 8762.34 | 8789 |
| | Bottom | 8660.67 | 8712.34 | 8764.01 | 8791 |
| Stage 21 Perfs, 3 guns loaded @ 60 degree phasing | Тор | 8504 | 8555.67 | 8607.34 | 8634 |
| | Bottom | 8505.67 | 8557.34 | 8609.01 | 8636 |
| Stage 22 Perfs, 3 guns loaded @ 60 degree phasing | Төр | 8349 | 8400.67 | 8452.34 | 8479 |
| | Bottom | 8350.67 | 8402.34 | 8454.01 | 8481 |
| Stage 23 Perfs, 3 guns loaded @ 60 degree phosing | Тор | 8194 | 8245.67 | 8297.34 | 8324 |
| | Bottom | 8195.67 | 8247.34 | 8299.01 | 8326 |



OXY USA INC.

RECOMPLETE HYDRAULIC FRACTURING PROCEDURE CYPRESS 34 FEDERAL 1H

| Revision No: | 1 |
|----------------|------------|
| Revision Date: | 06/12/2017 |
| Rig Type: | |
| Page No: | |
| | |

STAGE 1-22 PUMP SCHEDULE

| | | | Ruid Information | | | | | Proppant Information | | | |
|------|-------|------------|------------------------------|--------------|-------|--------|-------------|----------------------|---------------------|--------------|--------|
| Time | | | Rate Clean Dirty Curn. Dirty | | | | Prop. Conc. | | itaga SandCum. Sand | | |
| 8 | (min) | Type | [bpm] | (ph) | [gab] | (pais) | Description | [PPA] | Description | [164] | (tbs) |
| 1 | 2.38 | Breakdown | 20 | 2000 | 2,000 | 2,000 | Sick Water | | | + | 3 |
| 2 | 2.78 | Yaq | 30 | 500 | 500 | 7,500 | 35% HC1 | | | • | |
| 3 | 4.86 | Pad | 80 | 7000 | 7,000 | 9,500 | Silch Woter | | | | |
| 4 | 5.75 | Sand-Laden | 80 | 3000 | 3,034 | 12,534 | Stick Water | 0.25 | 200 Mesh | 750 | 750 |
| 5 | 665 | Sand-Laden | 80 | 3000 | 3,068 | 15,602 | Slick Water | 0.50 | 100 Mesh | 1,500 | 2,750 |
| 6 | 7,54 | Sand-Laden | 80 | 3000 | 3.102 | 18,704 | Silch Water | 0.75 | 100 Mesh | 2,250 | 4,500 |
| 7 | 9.33 | Sand-Laden | 80 | 6000 | 6,271 | 24975 | Sick Water | 1.00 | 100 Mesh | 6,000 | 10,500 |
| 8 | 11.11 | Sweep | 80 | 5000 | 5,339 | 31,314 | Sick Water | 125 | 100 Mesh | 7,500 | 18,000 |
| 9 | 12.90 | Sand-Leden | 80 | 600 0 | 6,407 | 37,722 | Slick Water | 1.50 | 100 Mesh | 9,000 | 27,000 |
| 10 | 13.49 | Sand-Laden | 80 | 2000) | 2,000 | 39,722 | Silch Water | | Sweep | r | 27,000 |
| 11 | 14 68 | Sand-Ladon | ဆ | 4000 | 4,181 | 43,903 | 15#Un Gel | 100 | 40/70 White | 4,000 | 37,000 |
| 12 | 15.87 | Sand-Laden | 80 | 4000 | 4,271 | 48,174 | 15#Un Gel | 1.50 | 40/70 White | 6,000 | 37,000 |
| 13 | 17.06 | Sand-Laden | 80 | 4000 | 4,317 | 52,491 | 15#Un Gel | 1.75 | 40/70White | 7,000 | 44,000 |
| 14 | 18 25 | Sand-Laden | 80 | 4000 | 4,352 | 50,853 | 15HUnGel | 2 00 | 40/70 White | 8,000 | 52,000 |
| 15 | 19.44 | Send-Laden | 80 | 4000 | 4,407 | 61,260 | 150 Un Gel | 2.25 | 40/70 White | 9,000 | 61,000 |
| 16 | 20.63 | Sand Laden | 80 | 4000 | 4,452 | 65,713 | 15#Un Gel | 2.50 | 40/70 White | 10,000 | 71,000 |
| 17 | 0.00 | Flush | 80 | | | | Sikk Water | (1) | ush to Top Parl | 1 | 71,000 |