

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

09/27/2022

Well Name: SUPERIOR KJ FED	Well Location: T20S / R29E / SEC 7 / NWNW /	County or Parish/State: EDDY / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0144698	Unit or CA Name: 1 SUPERIOR KJ FED COM	Unit or CA Number: NMNM101349
US Well Number: 3001522908	Well Status: Gas Well Shut In	Operator: EOG RESOURCES INCORPORATED

Accepted for record – NMOCD gc 10/4/2022

Notice of Intent**Sundry ID:** 2690762**Type of Submission:** Notice of Intent**Type of Action:** Plug and Abandonment**Date Sundry Submitted:** 09/06/2022**Time Sundry Submitted:** 10:08**Date proposed operation will begin:** 09/30/2022**Procedure Description:** EOG PROPOSES TO PLUG AND ABANDON THIS WELL USING THE ATTACHED PROCEDURE. THE PROPOSED AND CURRENT WELLBORE SCHEMATICS ARE ALSO ATTACHED.**Surface Disturbance****Is any additional surface disturbance proposed?:** No**NOI Attachments****Procedure Description**

Superior_KJ_Federal_COM__1__P_A_Procedure_20220906100737.pdf

Superior_KJ_Federal_COM__1__CURRENT_WBD_20220906100711.pdf

Superior_KJ_Federal_COM__1__PROPOSED_WBD_20220906100638.pdf

Well Name: SUPERIOR KJ FED**Well Location:** T20S / R29E / SEC 7 /
NWNW /**County or Parish/State:** EDDY /
NM**Well Number:** 1**Type of Well:** CONVENTIONAL GAS
WELL**Allottee or Tribe Name:****Lease Number:** NMNM0144698**Unit or CA Name:** 1 SUPERIOR KJ FED
COM**Unit or CA Number:**
NMNM101349**US Well Number:** 3001522908**Well Status:** Gas Well Shut In**Operator:** EOG RESOURCES
INCORPORATED**Conditions of Approval****Specialist Review**

SUPERIOR_KJ_FED_1__2690762__COA_AND_PROCEDURE_20220923135819.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KAY MADDOX**Signed on:** SEP 06, 2022 10:08 AM**Name:** EOG RESOURCES INCORPORATED**Title:** Regulatory Specialist**Street Address:** 5509 CHAMPIONS DR.**City:** MIDLAND**State:** TX**Phone:** (432) 638-8475**Email address:** KAY_MADDOX@EOGRESOURCES.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** KEITH P IMMATTY**BLM POC Title:** ENGINEER**BLM POC Phone:** 5759884722**BLM POC Email Address:** KIMMATTY@BLM.GOV**Disposition:** Approved**Disposition Date:** 09/23/2022



Superior KJ Federal COM #1 – P&A Procedure

D-7-20S-29E

API # 30-015-22908

1. Notify Regulatory Agency 24 hours prior to commencing work. MIRU well service unit and all necessary safety equipment.
2. ND WH, NU BOP.
3. RIH, set 5.5" CIBP at 10139. TAG. Pressure test CIBP to 500psi for 30 minutes.
4. Circulate plugging mud and spot 25 sx class H on top of CIBP (10139 to 9913)
5. Pick up, set balanced plug of 25 sx Class H from 9146 to 8920. This satisfies capping the top of the Wolfcamp Formation. No need for WOC & TAG due to good casing cement.
6. Pick up, perf @ 7650 and squeeze and balance w/ 25 sx Class H at TOC. 7650 to 7424. WOC & TAG.
7. Pick up, perf @ 5490 and squeeze and balance w/ 35 sx Class C from 5490 to 5238. This satisfies capping the top of the Bone Spring Limestone Formation. WOC & TAG.
8. Pick up, perf @ 3086 and squeeze and balance w/ 30 sx Class C as part of -50' below intermediate shoe. 3086 to 2834. WOC and TAG.
9. **Delaware@2880: Perf and sqz from 2930' to 2801'. Tag and verify. ~30sx**
10. **Yates@856: Perf and sqz from 906' to 797'. Tag and verify. ~25sx**
11. Pick up, perf @ 622 and squeeze and balance w/ 145 sx Class C as part of -50' below surface — shoe. 622 to surface.
High cave karst area=> 500' surface plug. Combined shoe and surface plg. Verify to surface inside and in annulus.
12. ~~Pick up and set balanced surface plug w/ 10 sx Class C from 100 to 0.~~
13. Cut off WH 3' below surface, verify cement to surface, and weld on below ground P&A marker.
14. Cut off anchors 3' below surface and clean location.

KEITH

IMMATTY

Digitally signed by
KEITH IMMATTY
Date: 2022.09.23
13:56:45 -06'00'

Well Name: Superior KJ Federal COM #1
 Location: 990 FNL & 990 FWL
 County: Eddy, NM
 Lat/Long: 32.5925598,-104.1187515
 API #: 3001522908
 Spud Date: 11/2/94
 Compl. Date: 1/1/93

Current Wellbore Diagram:

KB:
 GL: 3274

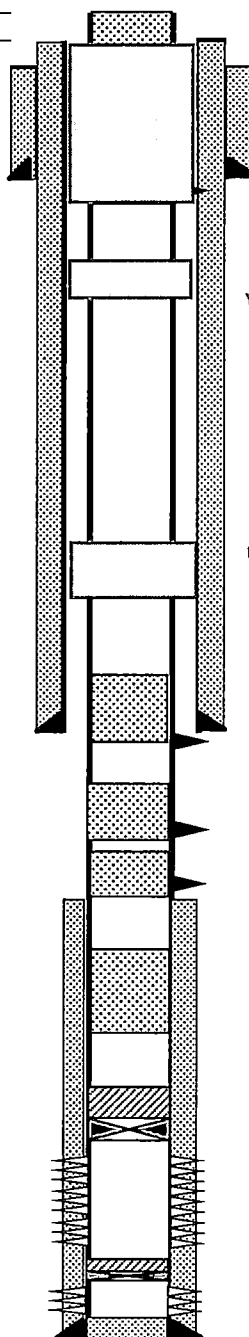
17.500"
 13.375" 48.00# @ 572
 600 sx = surface

12.250"
 8.625" 32.00# @ 3036
 1375 sx = surface

TOC @ 7650 (CBL)

7.875"
 5.500" 17.00# @ 11536
 800 sx = 7650 (CBL)

PBTD @ 10740
 TD @ 11536



Cut off WH 3' below surface
 Set balanced plug of 10 5/8 Class H to surface (100 to 0)

Perf and Sqz @ 622 to surface. for surface shoe w/ 145sx Class C, WOC & TAG (Top ~370)
 High cave karst area=> 500' surface plug. Combined shoe and surface plg. Verify to surface inside and in annulus.

Yates@856: Perf and sqz from 906' to 797'. Tag and verify. ~25sx

Delaware@2880: Perf and sqz from 2930' to 2801'. Tag and verify. ~30sx

Perf and Sqz @ 3086 for Intermediate shoe w/ 30sx Class C, WOC & TAG (Top ~2834)

Perf and Sqz @ 5490 w/ 35sx Class C, WOC & TAG (Top ~5238), satisfies capping of BS Formation

Perf and Sqz @ 7650 for TOC w/ 25sx Class H, WOC & TAG (Top ~7424)

Set Balanced Plug of 25 sx Class H from 9146 to 8920, satisfies capping of Wolfcamp Formation

Top of 25sx Class H spot (10139 to 9913)
 CIBP @ 10139, TAG, Spot 25 sx Class H **Leak test CIBP 500psi, 30mins**
 Open Perfs 10239 - 10249
 Open Perfs 10276 - 10290
 Open Perfs 10316 - 10328
 Open Perfs 10352 - 10357
 CIBP @ 10740 w/ 35' of CMT
 Abandoned Morow Perforations

Formation Tops

T of Salt	
B of Salt	
Rustler	
Bell Canyon	2,880
Cherry Canyon	
Brushy Canyon	
Leonard	
Bone Spring	5,440
Wolfcamp	9,096
Cisco	
Canyon	
Strawn	10,224
Atoka	10,495
Morrow	11,147

Not to Scale

By: AEC 8/31/22

Sundry ID

2690762

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	622.00	622.00	Verify at surface	145.00	Perf and sqz. High cave karst area. 500' to surface. Combined with shoe plug.
Shoe Plug	0.00	622.00	622.00	WOC and Tag	145.00	Perf and sqz. High cave karst area. 500' to surface. Combined with shoe plug.
Yates @ 856	797.44	906.00	108.56	WOC and Tag	25.00	Perf and sqz
Delaware @ 2880	2801.20	2930.00	128.80	WOC and Tag	30.00	Perf and sqz
Shoe Plug	2955.64	3086.00	130.36	WOC and Tag	30.00	Perf and sqz
Bonesprings @ 5440	5335.60	5490.00	154.40	WOC and Tag	35.00	Perf and sqz
TOC 7650					25.00	Spacer plug
Wolfcamp @ 9096	8955.04	9146.00	190.96		25.00	
CIBP Plug	10104.00	10139.00	35.00	WOC and Tag/ Tag CIBP	25.00	Leak test CIBP 500psi, 30mins

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.

Class H >7500'

Class C <7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Critical, High Cave Karst: Cave Karst depth to surface

R111P: Solid plug in all annuli - 50' from bottom of salt to surface.

Class C: 1.32 ft³/sx

Class H: 1.06 ft³/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	High	KARST DEPTH/TOS to surface	500.00
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Shoe @ 572.00

Shoe @ 3036.00

Shoe @ 11536.00

Perforatons Top @ 10239.00

Perforations
Bottom @ 10357.00

CIBP @ 10139.00

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Federal Wells
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. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug 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. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.

3. Blowout Preventers: 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. Mud Requirement: 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. Cement Requirement: 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. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing 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. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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 well was plugged.

8. Trash: 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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, New Mexico 88220-6292
www.blm.gov/nm



In Reply Refer To: 1310

Reclamation Objectives and Procedures

Reclamation Objective: Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines **(Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads.** Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

- have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.
5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
 6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
 7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Jose Martinez-Colon
Environmental Protection Specialist
575-234-5951

Mark Mattozzi
Environmental Protection Specialist
575-234-5713

Robert Duenas
Environmental Protection Specialist
575-234-2229

Trishia Bad Bear, Hobbs Field Station
Natural Resource Specialist
575-393-3612

Well Name: Superior KJ Federal COM #1
Location: 990 FNL & 990 FWL
County: Eddy, NM
Lat/Long: 32.5925598,-104.1187515
API #: 3001522908
Spud Date: 11/2/94
Compl. Date: 1/1/93

Current Wellbore Diagram:

KB:

GL: 3274

17.500"

13.375" 48.00# @ 572

600 sx = surface

12.250"

8.625" 32.00# @ 3036

1375 sx = surface

TOC @ 7650 (CBL)

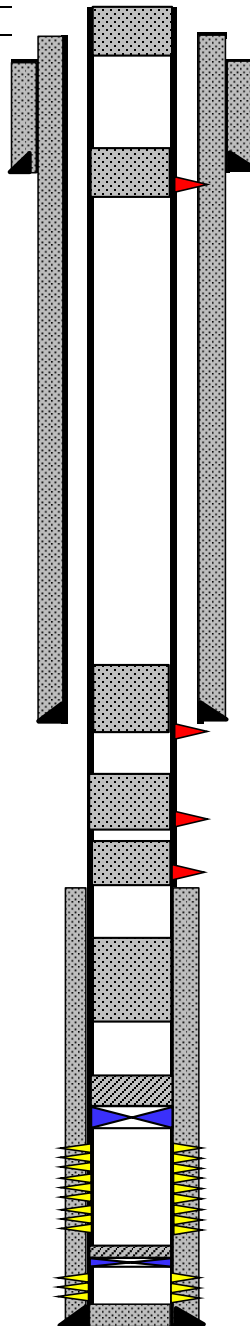
7.875"

5.500" 17.00# @ 11536

800 sx = 7650 (CBL)

PBTD @ 10740

TD @ 11536



Cut off WH 3' below surface

Set balanced plug of 10 sx Class H to surface (100 to 0)

Perf and Sqz @ 622 for surface shoe w/ 25sx Class C, WOC & TAG (Top ~370)

Perf and Sqz @ 3086 for Intermediate shoe w/ 25sx Class C, WOC & TAG (Top ~2834)

Perf and Sqz @ 5490 w/ 25sx Class C, WOC & TAG (Top ~5238), satisfies capping of BS Formation

Perf and Sqz @ 7650 for TOC w/ 25sx Class H, WOC & TAG (Top ~7424)

Set Balanced Plug of 25 sx Class H from 9146 to 8920, satisfies capping of Wolfcamp Formation

Top of 25sx Class H spot (10139 to 9913)

CIBP @ 10139, TAG, Spot 25 sx Class H

Open Perfs 10239 - 10249

Open Perfs 10276 - 10290

Open Perfs 10316 - 10328

Open Perfs 10352 - 10357

CIBP @ 10740 w/ 35' of CMT

Abandoned Morow Perforations



Formation Tops	
T of Salt	
B of Salt	
Rustler	
Bell Canyon	2,880
Cherry Canyon	
Brushy Canyon	
Leonard	
Bone Spring	5,440
Wolfcamp	9,096
Cisco	
Canyon	
Strawn	10,224
Atoka	10,495
Morrow	11,147

Not to Scale	
By: AEC	8/31/22

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 146727

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 146727
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	10/4/2022