

Well Name: HIGH HOPE DJ FD	Well Location: T17S / R23E / SEC 13 / NWNW /	County or Parish/State: EDDY / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0559512	Unit or CA Name: HIGH HOPE DJ FEDERAL COM	Unit or CA Number: NMNM71904
US Well Number: 300152123800S1	Well Status: Producing Gas Well	Operator: EOG RESOURCES INCORPORATED

Accepted for record – NMOCD gc 4/7/2022

Notice of Intent

Sundry ID: 2663069

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 03/21/2022	Time Sundry Submitted: 11:02
Date proposed operation will begin: 04/05/2022	

Procedure Description: Please see attached Notice of Intent to P&A. Thank you.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

High_Hope_DJ_Federal_Com_1_3_21_22_20220321110233.pdf

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Conditions of Approval

Specialist Review

High_Hope_DJ_Federal_Com_1___P_A_Procedure_and_COA_20220402105623.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: TINA HUERTA	Signed on: MAR 21, 2022 11:02 AM
Name: EOG RESOURCES INCORPORATED	
Title: Regulatory Specialist	
Street Address: 104 SOUTH FOURTH STREET	
City: Artesia	State: NM
Phone: (575) 748-4168	
Email address: tina_huerta@eogresources.com	

Field Representative

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: 04/02/2022
Signature: Keith Immatty	

SUNDRY ID: 2663069

High Hope DJ Federal Com 1
30-015-21238
Lease # NM-0559512
690'FNL & 480'FWL
Unit Letter D-13-17S-23E
Eddy County, New Mexico

EOG Resources, Inc. plans to plug and abandon this well as follows:

1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
 2. Spot a 25 sx Class C cement plug from 5961'-5715'. This will cover DV tool.
 3. Spot a 25 sx Class C cement plug from 4729'-4483'. This will cover 2nd DV tool and Wolfcamp top.
 4. Set a CIBP at 4429'. Spot 25 sx Class C cement on top of CIBP to 4183'. WOC and tag. This will cover lower Abo perms. **Pressure test to 500psi for 30 mins and verify integrity**
 5. Spot a 25 sx Class C cement plug from 3667'-3525'. This will cover Abo top. **Cement inside 5.5" casing OK. Perf and squeeze at 3,610' at least 18sx in the 5.5"-8.625" annulus**
 6. Perforate at 1677'. Squeeze with 103 sx Class C cement from 1677'-1230'. WOC and tag. This will cover casing shoe and Glorieta top.
 7. Perforate at **800'**. Squeeze with **185** sx Class C cement at **800'** and circulate up to surface. Back fill as needed. **Cement to surface both inside casing and in annulus. Depth and sacks adjusted to cover fresh water zone due to only one existing annulus with cement to surface.**
 8. Cut off wellhead and install dry hole marker. Clean location as per regulated.
- Wellbore schematics attached

High Hope DJ Federal Com 1 Current

Sec-TWN-RNG: Sec. 13-17S-23E
FOOTAGES: 480' FWL & 690' FNL

API: 30-015-21238
GL: 3969
KB: 3981

CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	12 1/4	8 5/8	24	J-55	0	1,282	600	Circ	
B	7 7/8	5 1/2	15.5	K-55	0	6,971	1100	3610	TS
							DV tools @ 4679 & 5911	Circ off stage #1 & #2	

FORMATION TOPS

	Formation	Top		Formation	Top
	San Andres	302			
	Glorieta	1627			
	Abo	3617			
	Wolfcamp	4530			

TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft)	Top (ftKB)	Btm (ftKB)
		2.375	4436						

Perforation Detail

	Formation	Top	Bottom	Treatment
A	L Abo	4479	4529	5000g 15% DS-30, 4000g 15% DS-30 plus 285,000 20-40 Sand in 120000 g gelled water
B	Canyon	6245	6251	Acidized w/500g mud acid
	Canyon	6266	6299	Acidized w/2500 g mud acid
C	Canyon	6741	6749	Acidized w/1000g 15% NEA plus 43000 SCF N2.

A

B

TOC by TS 3610'

L Abo perms 4479-4529

DV Tool at 4679

DV Tool at 5911

CIBP @ 6010 w/10' cmt plug
Canyon perms 6245-6299CIBP @ 6700 w/10' cmt plug
Canyon Perfs 6741-6749

PBTD: 6,912 MD
TD: 6,971 MD

DKC 2/11/21

Plug 6: Perf @ 352.0' - 352'. Verify @ surface. San Andres top + Surface plug
Depth of perfs and bottom of plug changed to 800' and sacks to 185sx to cover fresh water zone.

Plug 5: Perf @ 1677. 1230' - 1667'. WOC A
& tag. Surface csg shoe + Glorieta top

TOC by TS 3610'

Plug 4: 3511' - 3667'. Abo top
Diagram OK. Perf and squeeze for annulus added in procedure.

Plug 3: CIBP @ 4429. 4183' - 4429'. WOC & tag. Abo perfs Pressure Test: 500psi,
L Abo perfs 4479-4529 30mins for CIBP
DV Tool at 4679

Plug 2: 4483' - 4729'. DV Tool II + Wolfcamp top

DV Tool at 5911

Plug 1: 5715' - 5961'. DV Tool I

Existing CIBP @ 6010 w/10' cmt plug

Canyon perfs 6245-6299

Existing CIBP @ 6700 w/10' cmt plug

Canyon Perfs 6741-6749

PBTD:	6,912	MD
TD:	6,971	MD

Sec-TWN-RNG:	Sec. 13-17S-23E
FOOTAGES:	480' FWL & 690' FNL

API:	30-015-21238
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CASING DETAIL

[illegible]

FORMATION TOPS

[illegible]

TUBING DETAIL

[illegible]

Perforation Detail	
1	2
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	Formation	Top	Bottom	Treatment	
A	L Abo	4479	4529	5000g 15% DS-30, 4000g 15% DS-30 plus 285,000 20-40 Sand in 120000 g gelled water	
B	Canyon	6245	6251	Acidized w/500g mud acid	
		6266	6299	Acidized w/2500 g mud acid	
C	Canyon	6741	6749	Acidized w/1000g 15% NEA plus 43000 SCF N2	

Plugs

#	SX	Class	Top	Bottom	Δ	Notes	Tag
1	25	C	5715	5961	246	Spot 25sx. DV Tool I	N
2	25	C	4483	4729	246	Spot 25sx. DV Tool II + Wolfcamp top	N
3	25	C	4183	4429	246	CIBP @ 4429. Spot 25sx. WOC & tag. L Abo Perfs	Y
4	25	C	3525	3667	142	Spot 25sx. Abo Top	N
5	103	C	1230	1677	447	Perf @ 1677. Sqz 103sx. WOC & tag. Csg shoe + Glorietta Top	Y
6	82	C	0	352	352	Perf @ 352. Sqz 82sx. SA Top + Surface plug	Y

Prepared by HC: 3/3/21

Sundry ID	2663069					
Surface Plug	0.00		0.00	Tag/Verify	185sx	Fresh water plug and surface plug. 80sx minimum inside casing and 105sx in annulus.
ABO in Plateform Shelf @ 3617	3530.83	3667.00	136.17	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	32sx	ABO plug, perf and squeeze 32sx with base at 3,667' inside and 3,610' in the annulus. 18sx in annulus and 14 sacks inside casing minimum
Fresh Water @ 750	692.50	800.00	107.50	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	185sx	Fresh water plug and surface plug. 80sx minimum inside casing and 105sx in annulus.
Shoe Plug	1219.18	1332.00	112.82	Tag/Verify	27sx	Shoe plug of 27sx with base at 1,580'(Perf and squeeze). 12sx inside casing and 15sx in annulus minimum

				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations		
Glorieta @ 1627	1560.73	1677.00	116.27		27.00	Glorietta plug of 27sx with base at 1,580'(Perf and squeeze). 12sx inside casing and 15sx in annulus minimum
DV tool plug	4582.21	4729.00	146.79	Tag/Verify	25.00	
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations		
CIBP Plug	4394.00	4429.00	35.00		25.00	25sx. Pressure test to 500psi for 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, Medium, Secretary : Top of salt to surface If no salt take the deepest fresh water.

R111P: 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	Low
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Shoe @	1282.00
Shoe @	6971.00

Perforatons Top @	4479.00	Perforations Bottom @	4529.00
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DV Tool @	4679.00	CIBP @	4429.00
DV Tool @	5911.00		

**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 575-393-3612.

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).

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 and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip 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
575-234-5909, 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Melissa Horn
Environmental Protection Specialist
575-234-5951

Kelsey Wade
Environmental Protection Specialist
575-234-2220

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

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 95443

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 95443
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	4/7/2022