Form 3160-5 (June 2019)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUREAU O	BUREAU OF LAND MANAGEMENT					5. Lease Serial No. NMNM96047		
SUNDRY NOTICE Do not use this form for abandoned well. Use Fo	or proposals to	drill or to	re-enter an		ian, Allottee	or Tribe Name		
SUBMIT IN TRIPLIC	ATE - Other instruc	tions on page .	2	7. If Uni	t of CA/Agre	eement, Name ar	nd/or No.	
1. Type of Well				0. W. II.				
Oil Well Gas Well	Other			8. Well I	Name and No	BLACK RIVE	R 3/1	
2. Name of Operator EARTHSTONE OPERA	TING LLC			9. API V	Vell No. 300	1529259		
3a. Address 1400 WOODLOCH FOREST D	= 00 = 000,	b. Phone No. <i>(ir</i> 281) 298-4240	nclude area code)	10. Field	l and Pool or	Exploratory Are	ea	
4. Location of Well (Footage, Sec., T.,R.,M., or S SEC 3/T24S/R26E/NMP	Survey Description)			11. Cour	ntry or Parish //NM	, State		
12. CHECK THE	APPROPRIATE BOX	K(ES) TO INDI	CATE NATURE	OF NOTICE, REP	ORT OR OT	HER DATA		
TYPE OF SUBMISSION			TYP	E OF ACTION				
Notice of Intent	Acidize Alter Casing	Deepen Hydrau	llic Fracturing	Production (S Reclamation	tart/Resume)	Water S Well In	Shut-Off tegrity	
Subsequent Report	Casing Repair Change Plans	=	onstruction ad Abandon	Recomplete Temporarily A	Abandon	Other		
Final Abandonment Notice	Convert to Injection	Plug Ba	ack	Water Disposa	al			
completion of the involved operations. If the completed. Final Abandonment Notices mus is ready for final inspection.)  1) SET 5-1/2" CIBP @ 11,250'; PRES. (T/MRRW.). 2) PUMP (55) SXS. CLAS CLASS "H" CMT. @ 9,673'-9,483' (T/C 5) PUMP (25) SXS. CLASS "C" CMT. 1,960'-1,840' (T/DLWR., 9-5/8" CSG.S (13-3/8" CSG.SHOE); WOC X TAG TO DIG OUT X CUT OFF WELLHEAD 3' INSTALL DRY HOLE MARKER. DURING THIS PROCEDURE WE PLA REQUIRED DISPOSAL, PER OCD RU	t be filed only after all TEST 5-1/2" CIBP SS "H" CMT. @ 10,4 F@ 5,374'-5,224' (T/IHOE); WOC X TAGDC. 8) PERF. X CIRB.G.L.; VERIFY CMAN TO USE A CLOSULE 19.15.17.	X CSG. TO 50 140'-10,010' (T PUMP (25) SXS BNSG.). 6) PE TOC. 7) PER C. TO SURF., T. TO SURF.	including reclams  00# X HOLD; PU /ATOKA, T/STV S. CLASS "H" C RF. X ATTEMPT FILLING ALL A ON ALL ANNUL	Ation, have been co JMP (35) SXS. C VN.); WOC X TAC MT. 8,673'-8,493 T TO SQZ. (80) S TO SQZ. (70) SX NNULI, (40) SXS LI; WELD ON STI	mpleted and  LASS "H" C G TOC. 3) F I (T/WLCP.) SXS. CLASS KS. CLASS CLASS "C EEL PLATE	the operator has  MT. @ 11,250  PUMP (25) SXS  I; WOC X TAG  S "C" CMT. @  "C" CMT. @ 43  TO CSGS. X	detennined that the site '-10,994' 3. TOC. 45'-345' -3'. 9)	
14. I hereby certify that the foregoing is true and DAVID EYLER / Ph: (432) 687-3033	correct. Name (Print		Agent Title					
Signature (Electronic Submission)		Ι	Date		10/31/2	2023		
epted for record –NMOCD gc12/7/2023	THE SPACE I	OR FEDE	RAL OR STA	ATE OFICE U	SE			
Approved by								
KEITH P IMMATTY / Ph: (575) 988-4722 /	Approved		Title ENGI	NEER		Date	12/01/2023	
Conditions of approval, if any, are attached. Apprecertify that the applicant holds legal or equitable			or	RLSBAD				

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)

which would entitle the applicant to conduct operations thereon.

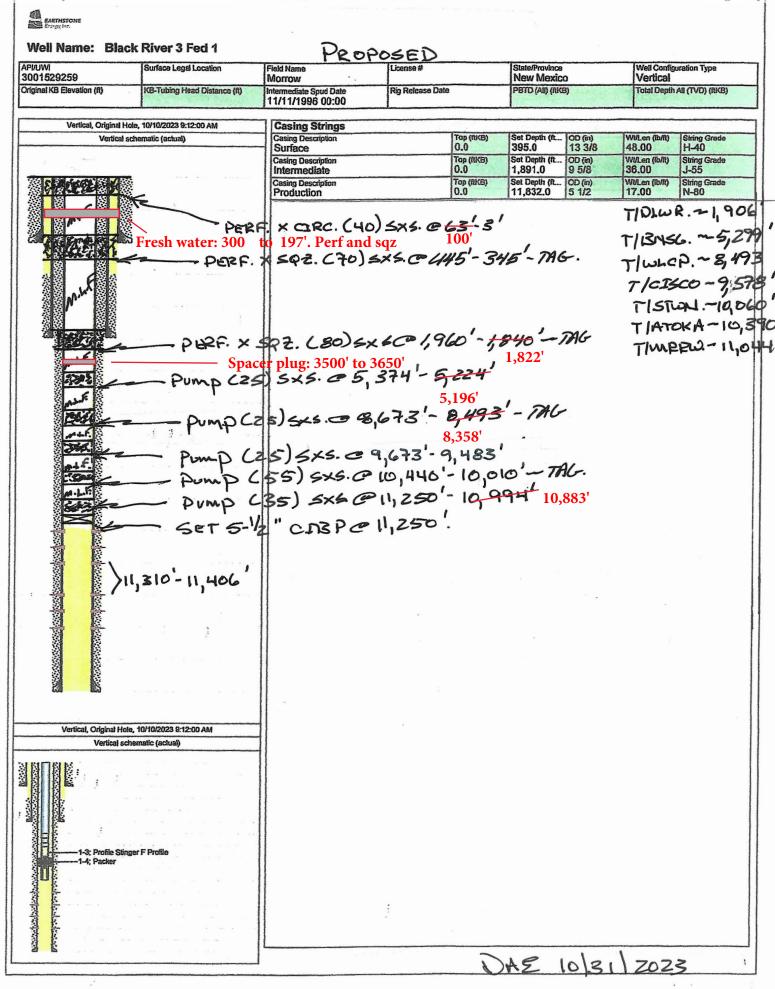
- 1) SET 5-1/2" CIBP @ 11,250'; PRES. TEST 5-1/2" CIBP X CSG. TO 500# X HOLD **30mins**; PUMP (35) SXS. CLASS "H" CMT. @ 11,250'-10,**883**' (T/MRRW.).
- 2) PUMP (55) SXS. CLASS "H" CMT. @ 10,440'-10,010' (T/ATOKA, T/STWN.); WOC X TAG TOC.
- 3) PUMP (25) SXS. CLASS "H" CMT. @ 9,673'-9,483' (T/CISCO/CNYN.).
- 4) PUMP (25) SXS. CLASS "H" CMT. 8,673'-8,358' (T/WLCP.); WOC X TAG TOC.
- 5) PUMP (25) SXS. CLASS "C" CMT. @ 5,374'-5,196' (T/BNSG.).
- 5.a) Spacer Plug due to gap >3000' : 3500' to 3650', Class C
- 6) PERF. X ATTEMPT TO SQZ. (80) SXS. CLASS "C" CMT. @ 1,960'-1,822' (T/DLWR., 9-5/8" CSG.SHOE); WOC X TAG TOC.
- 7) PERF. X ATTEMPT TO SQZ. (70) SXS. CLASS "C" CMT. @ 445'-345' (13-3/8" CSG.SHOE); WOC X TAG TOC.
- 7.a) Freshwater plug due to lack of salt interval and plugs: 300' to 197', Class C. Perf and sqz
- 8) PERF. X CIRC. TO SURF., FILLING ALL ANNULI, (40) SXS. CLASS "C" CMT. @ 100'-3'.
- 9) DIG OUT X CUT OFF WELLHEAD 3' B.G.L.; VERIFY CMT. TO SURF. ON ALL ANNULI; WELD ON STEEL PLATE TO CSGS. X INSTALL DRY HOLE MARKER.

DURING THIS PROCEDURE WE PLAN TO USE A CLOSED-LOOP SYSTEM WITH A STEEL TANK AND HAUL CONTENTS TO THE REQUIRED DISPOSAL, PER OCD RULE 19.15.17.

KEITH

Digitally signed by KEITH IMMATTY

Date: 2023.12.01
11:15:11-07'00'



**Sundry ID 2758935** 

Suriary ID	2130933				
Plug Type	Тор	Bottom	Length	Tag	Notes
				Verify	
				circulated	Operator proposed
Surface Plug	0.00	100.00	100.00	to surface	P&S
-				WOC and	Operator proposed
Fresh Water @ 250	197.50	300.00	102.50	Tag	P&S
				WOC and	Operator proposed
Shoe Plug	341.05	445.00	103.95	Tag	P&S
				WOC and	Operator proposed
Shoe Plug	1822.09	1941.00	118.91	Tag	P&S
				WOC and	Operator proposed
Delaware @ 1906	1836.94	1956.00	119.06	Tag	P&S
Spacer	3500.00	3650.00	150.00		
Bonesprings @ 5299	5196.01	5349.00	152.99		
Wolfcamp @ 8493	8358.07	8543.00	184.93		
				WOC and	Same as plug on
Morrow @ 11044	10883.56	11094.00	210.44	Tag	CIBP
				Verify	
				CIBP	
CIBP Plug	11215.00	11250.00	35.00	depth	

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 ft^3/sx Class H: 1.06 ft^3/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	Medium KARST DEPTH/TOS to surface
Shoe @	395.00
Shoe @	1891.00
Shoe @	11832.00

Perforations Perforations Top @ 11310.00 Bottom @ 11406.00

CIBP @ 11250.00



API/UWI 3001529259

## **TBG & Wellbore Details**

Well Name: Black River 3 Fed 1

Surface Legal Location

Original KB Elevation (ft)	KB-Tubing Head Distance (ff)	Ini 1
		7.1
	10/10/2023 9:12:00 AM	H
Vertical sche	matic (actual)	$\  \ $
	-1-3; Profile Stinger F Profile -1-4; Packer	
CONTRACTOR		
Vartical Original Usla	10/10/2023 9:12:00 AM	4
	ematic (actual)	+
1-3; Profile Sting	er F Profile	

44 (197)	ing Strings											
Casing Description Surface				Top (	ftKB)	Set Dep 395.0		D (in) 3 3/8	Wt/Len (lb/ft) 48.00	String Grad	e	
Casing Description Intermediate				Top (ftKB) 0.0		Set Depth (ft OD (ir 1,891.0 9 5/8		Wt/Len (lb/ft) 36.00	J-55			
	g Description duction			Top (	ftKB)	Set Dep 11,83		D (in) i 1/2	Wt/Len (lb/ft) 17.00	String Grad N-80	le	
Sur	vey Data											
Meas	ured Depth (ftKB)	TVC	(ftKB)			Inclina	tion (°)		DLS (°/100	Oft)		
Meas	ured Depth (ftKB)	TVE	(ftKB)			Inclination (°)			DLS (°/100	DLS (*/100ft)		
Meas	ured Depth (ftKB)	TVE	(ftKB)			Inclina	tion (°)		DLS (°/100	Oft)		
Tub	ing	I Service										
		et Depti 1,027	n (ftKB) '.0		Set Dep	ith (TVD)		ate 0/2023	Pull	Date		
Jts	Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)	Btm Ind	
	Tubing		2 3/8	2.00	4.60	N-80		11,018.00	0.0	11,018.0	1.2	
	On-Off Tool	$\neg \uparrow$	2 3/8					1.50	11,018.0	11,019.5	K.5.	
	Profile Stinger F Pr	ofile	2 3/8	1.81				1.00	11,019.5	11,020.5		
	Packer		2 3/8					6.00	11,020.5	11,026.5		
	Facker							0.50	11,026.5	11,027.0		
	Wireline Guide		2 3/8	2.00			1	0.50	11,020.0			
Mar			2 3/8	2.00			1	0.50	111,0200		25.55	
	Wireline Guide	TRO	2 3/8 Pull (psi)		GP - Open	(psi)	SGP - Clo		pp Depth (ftKB)	Top (TVD)	) (ftKB)	
Static	Wireline Guide	TRO			GP - Open	(psi)	SGP - Clo				) (ftKB)	

Page 1/1

Report Printed: 10/19/2023

WVLen (lb/lt) 48.00

Wt/Len (lb/lt) 36.00

WVLen (lb/ft) 17.00 String Grade H-40

String Grade J-55 String Grade N-80

TIDIWR. 21, 906

T/BNS6. ~5,299 T/WLCP. ~ 8,493 T/CISCO ~ 9,578

TISTUM -10,060, TIATOKA-10,390, TIMPEW-11,044



Well Name: Black River 3 Fed 1

PROPOSED

l	AACH LAGING. SIMOLE	111010.00.	PROPO			Intel Conferration Time
-	Let HOAM	Surface Legal Location	Field Name Morrow			Well Configuration Type Vertical
١	3001529259		The same of the sa	Rio Release Date	PBTD (Alf) (fiKB)	Total Depth All (TVD) (RKB)
-	Original KB Elevation (ft)		Intermediate Spud Date 11/11/1996 00:00	Rig Release Date		

	On the Chinese	and the second second		
Vertical, Original Hole, 10/10/2023 9:12:00 AM	Casing Strings Casing Description	Top (fiKB)	Set Depth (ft	(in)
Vertical schematic (actual)	Surface	0.0	395.0	13 3/8
	Casing Description	Top (fiKB)	Set Depth (ft	OD (in)
1	Intermediate	0.0	1,891.0	9 5/8
C C C C C C C C C C C C C C C C C C C	Casing Description	Top (fiKB) 0.0	Set Depth (ft 11,832.0	OD (in) 5 1/2
1/2 - 1/2 -	Production	10.0	111,002.0	10 112
6			,	
Wh.	X CIRC. (40) 5x5. @	13-3	,	
PERF	A CIRC. CADY DAYS			
The property of			/ 201	
DISS S	502. C70) 5x5.004	45-5	45 - 180	9.
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The same of the sa	1 2 1 20 100 100 100	7/0 -1	840-	TAG-
PLRF. X	PZ. (80) 5×60 19	100 1		-
	SXS. @ 5, 374 - 5	5, 224		
Pump C25	1383.60,01	,		
.6	to the state of th		1 04	
ALL STATES OF THE STATES OF TH	11 - 12/22-	8.493	3 - 176	
Dump CZ	5) 545.0 8,673'-			
part .	5) 5x5. @ 9,673'- 55) 5x5. @ 10,446			
346	1-1146 19633-	9 483	•	
Pump Ca	15/5/3.0 1013	,,	1 7	A/_
1	(5) SXS. @ 10,440	-10,0	10 -11	10.
Pomp	1 200	1-100	agui"	
DUMD C	35) 5×5@11,250	10)	, , ,	
	1 3/70	1		
GET 5-1	" CASP@ 11,250	•		
	Н			
)11,310'-11,406'				
	4			
Vertical, Original Hole, 10/10/2023 9:12:00 AM	41			
Vertical schematic (actual)	41			

DAE 10/31/2023

1-3: Profile Stinger F Profile

## 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 <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> 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. <u>Notification:</u> 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. <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. 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. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

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. <u>Dry Hole Marker</u>: 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 10<sup>th</sup> 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. <u>Subsequent Plugging Reporting:</u> 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. <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.

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 predisturbance 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

Doris Lauger Martinez Environmental Protection Specialist 575-234-5926

Jaden Johnston Environmental Protection Asst. (Intern) 575-234-6252

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

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 290292

### **CONDITIONS**

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	290292
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By		Condition Date
gcordero	None	12/7/2023