



Sundry Print Report

04/26/2023

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

Well Name: WEST BISTI UNIT	Well Location: T26N / R13W / SEC 28 / SWNE / 36.46101 / -108.22138	County or Parish/State: SAN JUAN / NM
Well Number: 127	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMSF078091	Unit or CA Name: WEST BISTI UNIT	Unit or CA Number: NMNM78448X
US Well Number: 300450568400S1	Well Status: Water Injection Well	Operator: DUGAN PRODUCTION CORPORATION

Notice of Intent

Sundry ID: 2726688

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 04/20/2023

Time Sundry Submitted: 09:53

Date proposed operation will begin: 05/22/2023

Procedure Description: Dugan Production Corp. plans to plug to abandon the well per the following procedure: 1) TOOH w/2", 4.6# J-55 buttress tubing. Tally tubing. Run 3 1/2" casing scraper to 4970'. 2) TIH and set 3 1/2" cement retainer @ 4965' (end of 3 1/2", 9.2# liner @ 4982'). Load casing. Pressure test casing to 600 psi above the CR. Run CBL from 4965' to surface to determine TOC behind original 5 1/2" casing. Plugs are written with original TOC behind the original 5 1/2" casing from temperature survey @ 4400'. 5 1/2" casing has been squeezed and repaired, and 3 1/2", 9.2# liner was run and cemented from surface to 4982 later. So, a CBL will be run to determine cement behind casing. Will make necessary changes to the plugs after determining the cement bonding behind casing. 3) Sting in cement retainer @ 4965'. Spot and squeeze cement, under and above cement retainer w/16 sks (18.4 cu ft) Class G neat cement, 8 sks (9.2 cu ft) under the retainer to cover from 4965' to top of injection perforation @ 5028' inside the 5 1/2" casing. Sting out of the retainer and spot 8 sks (9.2 cu ft) above the CR inside 3 1/2" liner to cover top of Gallup from, 4965' to 4771'. Plug I, inside, 16 sks, 18.4 cu ft, Gallup, 4771'-5028'. 4) Perforate @ 4061'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3 1/2" casing to cover Mancos top from 4061' to 3911'. Plug II, inside/outside, 40 sks, 46 cu ft, Mancos, 3911'-4061'. 5) Perforate @ 2105'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3 1/2" casing to cover Mesaverde top from 2155' to 2005'. Plug III, inside/outside, 40 sks, 46 cu ft, Mesaverde, 2005'-2155'. 6) Perforate @ 1650'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3 1/2" casing to cover Chacra top from 1700' to 1550'. Plug IV, inside/outside, 40 sks, 46 cu ft, Chacra, 1550'-1700'. 7) Perforate @ 1395'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3 1/2" casing to cover Pictured Cliffs top from 1395' to 1245'. Plug V, inside/outside, 40 sks, 46 cu ft, Pictured Cliffs, 1245'-1395'. 8) Perforate @ 1050'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3 1/2" casing to cover Fruitland top from 1100' to 950'. Plug VI, inside/outside, 40 sks, 46 cu ft, Fruitland, 950'-1100'. 9) Perforate @ 275'. Spot and circulate cement to surface w/97 sks Class G, 111.6 cu ft to cover the Kirtland-Ojo Alamo & surface casing shoe. Circulate cement to surface through BH. Plug VII, inside/outside, 97 sks, 111.6 cu ft, Kirtland-Ojo Alamo-Surface, 0'-275'. 10) Cut wellhead. Tag top of cement inside 3 1/2" casing and in the annulus. 11) Install dry hole marker. Clean location and move.

Accepted for record – NMOCD

JRH — 05/02/2023 —

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Well Number: 127	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMSF078091	Unit or CA Name: WEST BISTI UNIT	Unit or CA Number: NMNM78448X
US Well Number: 300450568400S1	Well Status: Water Injection Well	Operator: DUGAN PRODUCTION CORPORATION

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- WBU_127_Reclamation_Plan_20230420094447.pdf
- WBU_127_PA_formation_tops_20230419144509.pdf
- WBU_127_PA_planned_wellbore_schematic_20230419144500.pdf
- WBU_127_PA_current_wellbore_schematic_20230419144451.pdf
- WBU_127_PA_planned_procedure_20230419144439.pdf

Conditions of Approval

Additional

26N13W28GKg_West_Bisti_Unit_127_20230426092935.pdf

Authorized

- General_Requirement_PxA_20230426114140.pdf
- 2726688_NOIA_127_3004505684_KR_04262023_20230426114131.pdf

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Well Number: 127	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMSF078091	Unit or CA Name: WEST BISTI UNIT	Unit or CA Number: NMNM78448X
US Well Number: 300450568400S1	Well Status: Water Injection Well	Operator: DUGAN PRODUCTION CORPORATION

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: TYRA FEIL **Signed on:** APR 20, 2023 09:44 AM

Name: DUGAN PRODUCTION CORPORATION

Title: Authorized Representative

Street Address: PO Box 420

City: Farmington **State:** NM

Phone: (505) 325-1821

Email address: tyrafeil@duganproduction.com

Field

Representative Name: ALIPH REENA

Street Address: PO BOX 420

City: FARMINGTON **State:** NM **Zip:** 87499-0420

Phone: (505)325-1821

Email address: Aliph.Reena@duganproduction.com

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK **BLM POC Title:** Petroleum Engineer

BLM POC Phone: 5055647742 **BLM POC Email Address:** krennick@blm.gov

Disposition: Approved **Disposition Date:** 04/26/2023

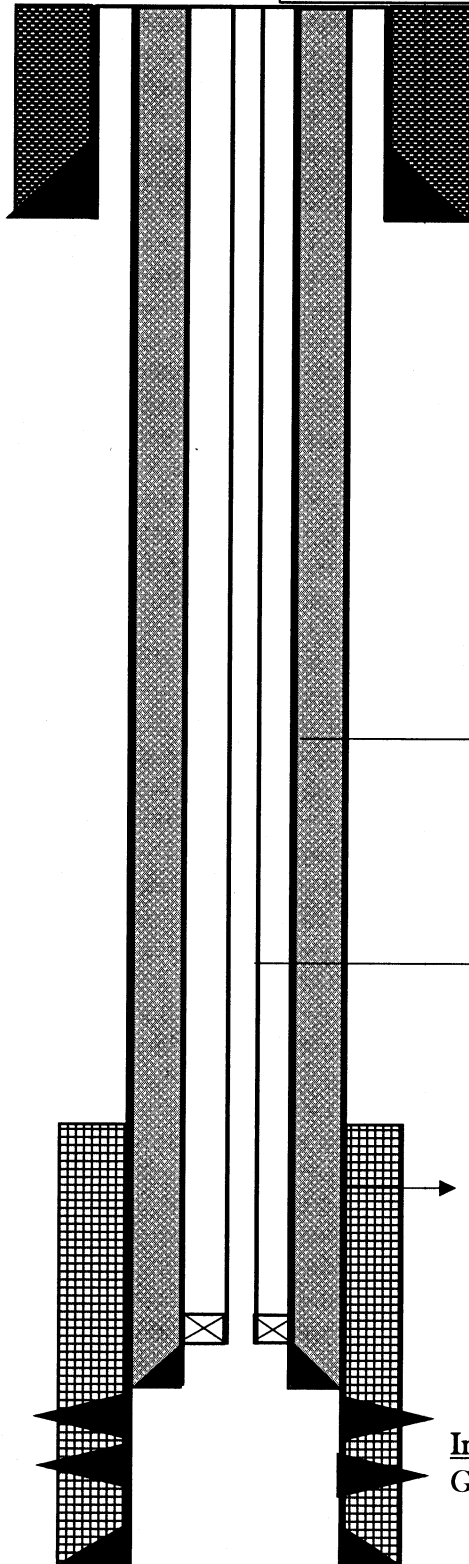
Signature: Kenneth Rennick

Dugan Production Corp plans to plug to abandon the well per the following procedure:

- TOOH w/2",4.6# J-55 buttress tubing. Tally tubing. Run 3½" casing scraper to 4970'.
- TIH and set 3½" cement retainer @ 4965' (end of 3½", 9.2# liner @ 4982'). Load casing. Pressure test casing to 600 psi above the CR. Run CBL from 4965' to surface to determine TOC behind original 5½" casing. Plugs are written with original TOC behind the original 5½" casing from temperature survey @ 4400'. 5½" casing has been squeezed and repaired, and 3½", 9.2# liner was run and cemented from surface to 4982 later. So a CBL will be run to determine cement behind casing. Will make necessary changes to the plugs after determining the cement bonding behind casing.
- Sting in cement retainer @ 4965'. Spot and squeeze cement, under and above cement retainer w/16 sks (18.4 cu ft) Class G neat cement. 8 sks (9.2 cu ft) under the retainer to cover from 4965' to top of injection perforation @ 5028' inside the 5½" casing. Sting out of the retainer and spot 8 sks (9.2 cu ft) above the CR inside 3½" liner to cover top of Gallup from, 4965' to 4771'. **Plug I, inside, 16 sks, 18.4 cu ft, Gallup, 4771'-5028'.**
- Perforate @ 4061'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement. 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3½" casing to cover Mancos top from 4061' to 3911'. **Plug II, inside/outside, 40 sks, 46 cu ft, Mancos, 3911'-4061'.**
- Perforate @ 2105'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3½" casing to cover Mesaverde top from 2155' to 2005'. **Plug III, inside/outside, 40 sks, 46 cu ft, Mesaverde, 2005'-2155'.**
- Perforate @ 1650'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3½" casing to cover Chacra top from 1700' to 1550'. **Plug IV, inside/outside, 40 sks, 46 cu ft, Chacra, 1550'-1700'.**
- Perforate @ 1395'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3½" casing to cover Pictured Cliffs top from 1395' to 1245'. **Plug V, inside/outside, 40 sks, 46 cu ft, Pictured Cliffs, 1245'-1395'.**
- Perforate @ 1050'. Spot and squeeze inside outside plug w/40 sks, 46 cu ft, Class G neat cement, 32 sks (36.8 cu ft) outside, 8 sks (9.2 cu ft) inside the 3½" casing to cover Fruitland top from 1100' to 950'. **Plug VI, inside/outside, 40 sks, 46 cu ft, Fruitland, 950'-1100'.**
- Perforate @ 275'. Spot and circulate cement to surface w/97 sks Class G, 111.6 cu ft to cover the Kirtland-Ojo Alamo & surface casing shoe. Circulate cement to surface through BH. **Plug VII, inside/outside, 97 sks, 111.6 cu ft, Kirtland-Ojo Alamo-Surface, 0'-275'.**
- Cut wellhead. Tag top of cement inside 3½" casing and in the annulus.
- Install dry hole marker. Clean location and move.

Current Wellbore Schematic

West Bisti Unit #127
API: 30-045-05684
Sec 28, T26N & R13W
1980 FNL & 1980 FEL
San Juan County, NM
Lat:36.4610519 Long:-108.2221832



Surface Casing

9-5/8" 25.4 # Casing @ 214'
Cemented w/ 175 sks
Hole size: 13-3/4"
Cement Circulated to surface

Injection liner

3 1/2" Liner from surface to 4982'. Cemented to surface.
Circulated 8 bbls cement to surface.

Injection Tubing

2-3/8", 4.6# IPC Coated tubing w/ Arrowset Packer
Packer Set @ 4955'

Original Production Casing

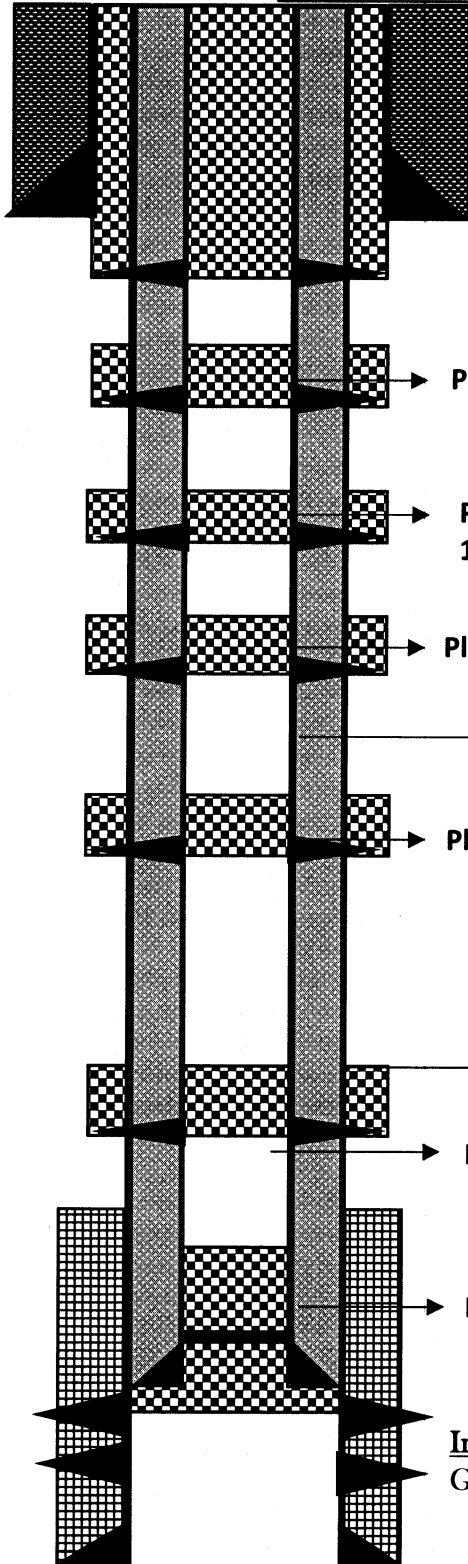
5 1/2" casing from surface to 5201'
Cemented w/ 100 sks cement.
TOC @ 4400' by temperature survey

Injection Zone

Gallup Perforations @ 5028'-5048', PBTD @ 5118'

Planned P & A Wellbore Schematic

West Bisti Unit #127
 API: 30-045-05684
 Sec 28, T26N & R13W
 1980 FNL & 1980 FEL
 San Juan County, NM
 Lat: 36.4610519 Long: -108.2221832



Surface Casing

9-5/8" 25.4 # Casing @ 214'
 Cemented w/ 175 sks
 Hole size: 13-3/4"
 Cement Circulated to surface

→ Plug VI, Inside/Outside, 40 sks, 46 Cu.ft, Fruitland, 950'-1100'.

→ Plug V, Inside/Outside, 40 sks, 46 Cu.ft, Pictured Cliffs, 1245'-1395'.

→ Plug IV, Inside/Outside, 40 sks, 46 Cu.ft, Chacra, 1550'-1700'

Injection liner

3 1/2" Liner from surface to 4982'. Cemented to surface.
 Circulated 8 bbls cement to surface.

→ Plug III, Inside/Outside, 40 sks, 46 Cu.ft, Mesaverde, 2005'-2155'.

Original Production Casing

5 1/2" casing from surface to 5201'
 Cemented w/ 100 sks cement.
 TOC @ 4400' by temperature survey

→ Plug II, Inside/Outside, 40 sks, 46 Cu.ft, Mancos, 3911'-4061'.

→ Plug I, Inside, 16 sks, 18.4 Cu.ft, Gallup, 4771'-5028'.

Injection Zone

Gallup Perforations @ 5028'-5048', PBTB @ 5118'

West Bisti Unit #127
API: 30-045-05684
Sec 28, T26N & R13W

Formation Tops

- Ojo Alamo: Surface
- Kirtland: 225
- Fruitland: 1050
- Pictured Cliffs: 1345
- Lewis: 1495
- Chacra: 1650
- Cliff house: 2105
- Mancos 4011
- Gallup 4935

**BLM FLUID MINERALS
P&A Geologic Report**

Date Completed: 4/26/2023

Well No. West Bisti Unit #127 (API# 30-045-05684)	Location	1980	FNL	&	1980	FEL
Lease No. NMSF078091	Sec. 28	T26N			R13W	
Operator Dugan Production Corporation	County	San Juan		State	New Mexico	
Total Depth 5203'	PBTD 5138'	Formation Gallup (injection)				
Elevation (GL)		Elevation (KB) 6272'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento					
Ojo Alamo Ss			Surface	225	Aquifer (possible freshwater)
Kirtland Shale			225	1050	Possible gas
Fruitland			1050	1345	Coal/Gas/Water
Pictured Cliffs Ss			1345	1495	Possible Gas
Lewis Shale			1495	1650	
Chacra			1650	2105	Possible Gas
Cliff House Ss			2105	2262	Water/possible gas
Menefee			2262	3628	Coal/Ss/Water/possible gas
Point Lookout Ss			3628	4011	
Mancos Shale			4011	4935	Probable O&G
Gallup			4935	PBTD	O&G
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P & A

- Sundry ID: 2726688
- Gallup injection well.
- Gallup perms 5028' – 5048'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402**

AFMSS 2 Sundry ID 2726688

Attachment to notice of Intention to Abandon

Well: West Bisti Unit 127

CONDITIONS OF APPROVAL

1. Plugging operations must be completed by December 31, 2023.
2. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 04/26/2023

**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON FIELD OFFICE**

- 1.0 The approved plugging plans may contain variances from the following minimum general requirements.
- 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
 - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
- 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
- 4.1 The cement shall be as specified in the approved plugging plan.
 - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.3 Surface plugs may be no less than 50' in length.
 - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
 - 4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

- 5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.
- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
 - 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
 - 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
 - 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.
- 6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.
- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
 - 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

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 211080

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 211080
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Adhere to BLM approved COAs and plugs. See GEO report.	5/2/2023