

## PROPOSED P&A PROCEDURE

### Carson #13A

1. MIRU.
2. RU and run CBL.
3. Circulate hole with mud laden fluid.
4. Spot 33 sx cement plug from 4,682' to 4,485'.
5. Spot 158 sx cement plug from 4,340' to 3,540'.
6. Spot 48 sx cement plug from 1,951' to 1,708'.
7. Spot 30 sx cement plug from 1,210' to 1,060'.
8. Shoot perf squeeze holes in 7" casing at 296'.
9. Spot 104 sx (inside/outside) cement plug from 296' to surface. Ensure cement at surface on all strings of casing, top off as needed.
10. Cut off wellhead below surface casing flange. Install P&A marker.

# MorningStar Operating, LLC

## Current WBD

**Carson #13A**  
**Rio Arriba County, NM**

Prepared by: JRyza/BSavage  
Date: 06/20/2023

KB = 15 ft  
GL = 7,553 ft  
API# 30-039-27557

Spud Date: 05/23/2004  
Well First Delivered: 07/07/2004

TD – 7,210 ft MD

12-1/4" hole to 250'  
Surface Csg: 5 jts 9-5/8" 32.3# H-40  
Setting Depth: 246 ft

Cement  
150sx Class B (177 ft<sup>3</sup>)  
Circulated 15 bbls cement to surface

8-3/4" hole to 4823'  
Intermediate Csg: 109 jts 7" 20#&23# J-55 ST&C  
Setting Depth: 4,823 ft  
DV tool @ 4063'

Cement  
First Stage: 185sx 50/50 Class B poz  
2nd Stage lead: 550sx 65/35 Class B poz  
2<sup>nd</sup> Stage Tail: 100sx 50/50 Class B poz  
TOC: 400' CBL (top of very good bond 2900')

6-1/8" hole to 7,210 ft MD  
Liner: 61 jts 4-1/2" 10.5# J-55 ST&C  
Setting depth: 7,210 ft  
TOL: 4,632 ft

Cement  
350sx 50/50 Class B poz  
Circulated 7 bbls cmt to surface

Perfs (Upper MV): 1 spf, 43 holes:  
6,346', 48', 50', 56', 58', 84', 86', 98',  
6,400', 02', 10', 12'-18', 36', 38', 40', 42', 44', 86',  
88', 90', 92', 94', 96',  
6,504', 06', 08', 10', 12', 14', 27', 29', 57', 59',  
80', 81', 83', 85'

Completion:  
36,585 gals 60Q foamed slickwater &  
67,400# 20/40 sand

Perfs (Lwr MV): 1 spf, 29 holes:  
6,755', 57', 59', 64', 66', 68',  
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6,916', 18', 20', 22', 24', 26'

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Nacimiento: 2385'  
Ojo Alamo: 3640'  
Kirtland: 3870'  
Fruitland: 4075'  
Pictured Cliffs: 4290'  
Mesaverde: 4585'  
Cliff House: 6110'  
Menefee: 6415'  
Point Lookout: 6660'

6/14/2023:  
Tbg and scraper stuck at 5973'.  
Worked and attempted to free with no luck.

Spotted 19 sx cmt above, TOC @ 5390'

Cut tbg @ 5750'  
Scraper stuck @ 5973'

MV Perfs:  
6,346' – 6,585' (overall)  
6,755' – 6,926' (overall)

PBTD: 7,166 ft MD

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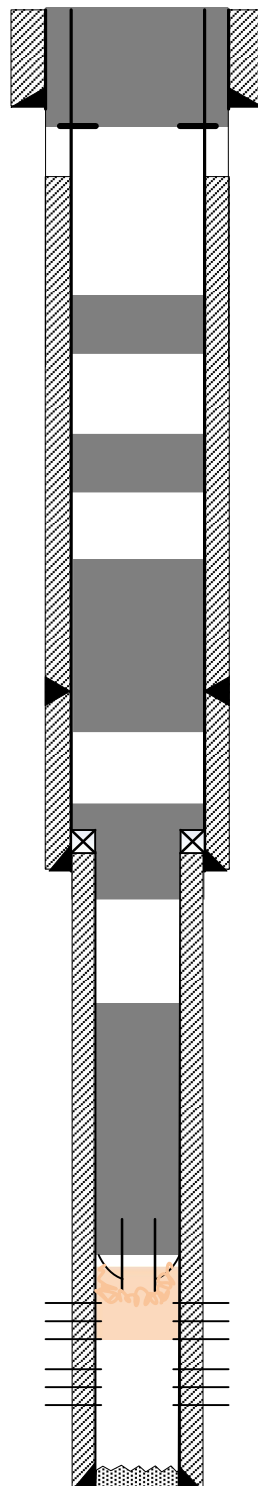
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104 sx cmt from 0' - 296' (inside/outside)  
Perf @ 296'

30 sx cmt from 1060' - 1210' (Nacimiento)

48 sx cmt from 1708' - 1951'

158 sx cmt from 3540' - 4340' (Ojo, Kirtland, Fruitland, PC)

33 sx cmt from 4485' - 4682' (Liner top)

Spotted 19 sx cmt above, TOC @ 5390'

Cut tbg @ 5750'  
Scraper stuck @ 5973'

MV Perfs:  
6,346' - 6,585' (overall)  
6,755' - 6,926' (overall)

Nacimiento: 1160'  
Ojo Alamo: 3640'  
Kirtland: 3888'  
Fruitland: 4075'  
Pictured Cliffs: 4278'  
Chacra: 5530'  
MV Cliff House: 6108'  
Menefee: 6415'  
Point Lookout: 6660'

**PBTD: 7,166 ft MD**

Well Name: CARSON	Well Location: T30N / R4W / SEC 32 / NWSW / 36.766748 / -107.284242	County or Parish/State: RIO ARRIBA / NM
Well Number: 13A	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF079488A	Unit or CA Name:	Unit or CA Number:
US Well Number: 300392755700S1	Well Status: Gas Well Shut In	Operator: MORNINGSTAR OPERATING LLC

Notice of Intent

Sundry ID: 2738931

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 06/30/2023	Time Sundry Submitted: 09:49
Date proposed operation will begin: 09/15/2023	

Procedure Description: MorningStar Operating requests approval of the attached procedure to P&A the Carson 13A. Also attached are the current and proposed WBDs and Reclamaiton Plan..

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Reclamation\_Plan\_\_\_Carson\_\_\_13A\_20230630094843.pdf
- Carson\_\_\_13A\_WBD\_Proposed\_PA\_20230630094829.pdf
- Carson\_\_\_13A\_WBD\_Current\_20230630094813.pdf
- Carson\_\_\_13A\_PA\_Proposed\_Procedure\_20230630094744.pdf

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Conditions of Approval

Additional

PxA\_30N04W32LKmv\_Carson\_013A\_20230707142830.pdf

Authorized

General\_Requirement\_PxA\_20230707150957.pdf

2738931\_NOIA\_13A\_3003927557\_KR\_07072023\_20230707150922.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: CONNIE BLAYLOCK

Signed on: JUN 30, 2023 09:48 AM

Name: MORNINGSTAR OPERATING LLC

Title: Regulatory Technician

Street Address: 400 W 7th St.

City: Forth WorthState: TX

Phone: (817) 334-7882

Email address: CBLAYLOCK@MSPARTNERS.COM

Field

Representative Name: Amy Byars

Street Address:

City:State:Zip:

Phone:

Email address: abyars@txoenergy.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: 07/07/2023

Signature: Kenneth Rennick

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

AFMSS 2 Sundry ID 2738931

Attachment to notice of Intention to Abandon

Well: Carson 13A

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. The following modifications to your plugging program are to be made:
  - a. Adjust Nacimiento plug, or add a plug, to cover BLM formation top @ 1160'
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 07/07/2023

## BLM FFO Fluid Minerals P&A Geologic Report

AFMSS ID: 2738931

Date Completed: 7/7/2023

Well No.	Carson #013A	SHL	1835	FSL	890	FWL
API No.	3003927557			Sec. 32	T30N	R04W
Lease No.	NMSF079488A	BHL	Same			
Operator	Morningstar Operating LLC					
Elev. (KB)	7568'	County	Rio Arriba	State	NM	
Total Depth	7210	PBTD	5390	Formation	Mesaverde	

Formation Top	TVD (ft KB)	Remarks
San Jose Fm.	Surface	Surface/freshwater sands
Nacimiento Fm.	1160	Water
Ojo Alamo Ss	3640	Water
Kirtland Fm.	3888	Possible gas/water
Fruitland Fm.	4075	Coal/gas/water
Pictured Cliffs Ss	4278	Gas/water
Lewis Shale	4420	
Chacra	5530	Possible gas
Cliff House Ss	6108	Probable gas/water
Menefee Fm.	6415	Coal/gas/water
Point Lookout Fm.	6660	Gas/oil/water
Mancos Shale	7155	Oil & gas
Gallup		
Greenhorn Ls		
Graneros Shale		
Dakota Ss		
Morrison Fm.		

## Remarks:

- Mesaverde perms 6346' - 6585' and 6755' - 6926'.
- BLM picks for the Cliff House, Chacra, Pictured Cliffs, Kirtland and Nacimiento vary from Operator.
- Adjust the Nacimiento plug, or add a plug, to cover BLM formation top @ 1160'.

## Reference Well:

**1) Formation Tops**  
Same

Prepared by: Chris Wenman

**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 H<sub>2</sub>S.

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.

## PROPOSED P&A PROCEDURE

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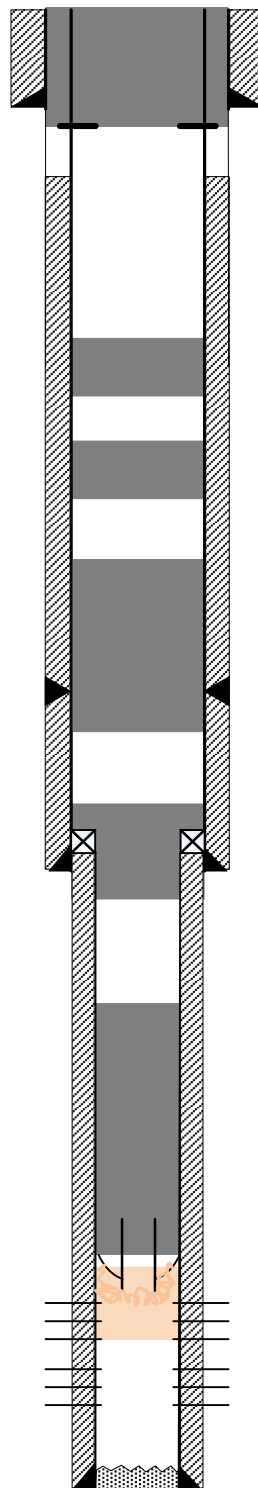
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**P&A RECLAMATION PLAN**  
**Carson #13A**  
**T30N R4W SEC. 32**  
**36.766667°, -107.283611°**  
**API: 30-039-27557**

**General Notes:**

- MorningStar Operating will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- MorningStar Operating will notify the BLM & USFS at least 48 hours prior to commencing reclamation earthwork.
- MorningStar Operating will notify the BLM & USFS at least 48 hours prior to commencing with seeding application.
- Underground production piping on the well site will be removed or abandoned-in-place.
- If present, all MorningStar Operating power poles, rectifiers, solar panels, and radio equipment will be removed. Cathodic groundbeds will be plugged and abandoned.
- Rig anchors found on site will be removed.
- Disturbance will be limited to the well site footprint and access road boundaries.
- Surface equipment and trash, if any, will be removed.
- If present, gravel will be removed from the well pad surface. Gravel may be used as fill material at the base of the cut slope or on a nearby lease road as road-base.
- The P&A marker will be permanent and comply with NMOCD regulations.

**Well Site Reclamation:**

- MorningStar Operating will reclaim the well site to the specifications set forth by the USFS. Such specifications will be determined in conjunction with the USFS at an on-site meeting.

**Access Road Reclamation:**

- The associated road will be reclaimed to the same specification set forth by the USFS upon conducting an on-site meeting.

**Revegetation:**

The planned initial seed mixture and application rates for the Pinyon/Juniper Community identified during the site visit will be as follows. The seed application rates may be adjusted according to various methods of application.

Species	Select		Lbs/acre (PLS)*
Mountain Mahogany	X	Pick one out of two	2.0
Antelope Bitterbrush			2.0
Western Wheatgrass	X	Pick two out of three	2.0
Bottle Brush Squartail	X		3.0
Needleandthread			3.0
Indian Ricegrass	X	Pick three out of five	3.5
Blue Gamma	X		2.0
Sand Dropseed	X		.5
Prairie Junegrass			2.0
Muttongrass			2.0
Scarlet Globemallow		Pick one out of two	.25
Utah Sweetvetch	X		.25
TOTAL			

\* Minimum if drill seeded. Double this rate if broadcast or hydroseeded.

- Seeding will be broadcast so the rates will be doubled and a rake or harrow will be used to incorporate the seed into the soil.
- Seed mixtures will be certified weed-free and the seeding records (bag labels) or other official documentation will be available to the BLM prior to seeding, upon request.
- Seeding will occur as soon as reasonably possible following completion of earthwork activities and timed for successful germination.
- The need for soil amendments is not expected or proposed.

**Weed Management:**

- The objective of MorningStar Operating is to implement an integrated weed management program to control weed populations and establish desirable vegetation.
- If needed, weed management and control will be performed in an environmental conscious manner by a properly licensed contractor and within compliance of federal and state laws and regulations.

**Monitoring:**

- MorningStar Operating will submit a Sundry Notice informing the BLM the earthwork and seeding are completed.
- After establishment of adequate vegetation, MorningStar Operating will coordinate with the USFS and take photos of the site. This information will be submitted with a Sundry Notice (FAN) requesting approval of the reclaimed location.
- Any fencing installed to assist with re-vegetation will be removed once there is an agreement from the USFS that adequate vegetation growth has been obtained.

**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 241066

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 241066
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 7/25/23. BLM approved P&A 7/7/23	7/25/2023