

Well Name: JICARILLA H	Well Location: T24N / R4W / SEC 5 / SESE /	County or Parish/State: RIO ARRIBA / NM
Well Number: 3	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC111	Unit or CA Name:	Unit or CA Number:
US Well Number: 300390561400S1	Well Status: Producing Gas Well	Operator: SOUTHLAND ROYALTY COMPANY

Notice of Intent

Sundry ID: 2668067

Type of Submission: Notice of Intent

Date Sundry Submitted: 04/21/2022

Date proposed operation will begin: 05/23/2022

Type of Action: Plug and Abandonment

Time Sundry Submitted: 01:40

Procedure Description: MorningStar requests approval to plug and abandon the Jicarilla H #3. Attached are the Proposed Procedure, WBDs, Reclamation Plan, and Noxious Weed Form.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

NOI_PA_Procedure__WBDs__Reclamation_Plan__Noxious_Weed_Form_20220421133910.pdf

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Conditions of Approval

Additional Reviews

General_Requirement_PxA_20220426163416.pdf
2668067_NOIA_H_3_3003905614_KR_04262022_20220426163402.pdf
24N04W05PKpc_Jicarilla_H_3_20220426094343.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: CONNIE BLAYLOCK
Signed on: APR 21, 2022 01:39 PM
Name: SOUTHLAND ROYALTY COMPANY
Title: Regulatory Technician
Street Address: 400 W 7th St.
City: Forth Worth **State:** TX
Phone: (817) 334-7882
Email address: CBLAYLOCK@MSPARTNERS.COM

Field Representative

Representative Name: Amy Byars
Street Address:
City: **State:** **Zip:**
Phone:
Email address: abyars@mspartners.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: 04/26/2022
Signature: Kenneth Rennick

**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), five copies, 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.

(October 2012 Revision)

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

AFMSS 2 Sundry ID 2668067

Attachment to notice of Intention to Abandon

Well: Jicarilla H 3

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) Combine Plug #1 and Plug #2 to cover BLM pick for the Fruitland formation top (2561').
 - b) Bring the top of Plug #3 (Nacimiento) up to 949' to cover BLM formation top pick (999').
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 4/26/2022

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 04/26/2022

Well No. Jicarilla H #3 (API# 30-039-05614)	Location	990	FSL	&	1090	FEL
Lease No. JIC111	Sec. 05	T24N			R04W	
Operator Southland Royalty Company/MorningStar Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 2908'	PBTD 2859'	Formation Pictured Cliffs				
Elevation (GL) 6726'		Elevation (KB) 6734'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	999	Surface/possible freshwater sands
Nacimiento Fm			999	2271	Possible freshwater sands
Ojo Alamo Ss			2271	2458	Aquifer (possible freshwater)
Kirtland Shale			2458	2561	
Fruitland Fm			2561	2776	Coal/Gas/Possible water
Pictured Cliffs Ss			2776	PBTD	Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison Formation					

Remarks:

P & A

- BLM formation top picks for the Fruitland, Kirtland and Nacimiento vary from Operator.
- Combine Plug #1 and Plug #2 to cover BLM pick for the Fruitland formation top (2561').
- Bring the top of Plug #3 (Nacimiento) up to 949' to cover BLM formation top pick (999').
- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.
- Pictured Cliffs perfs 3440' – 3520'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

PROPOSED P&A PROCEDURE

Jicarilla H 3

1. MIRU.
2. POOH w/ tubing.
3. Run a casing scraper to 2,775'
4. Set CICR @ 2,750'
5. RU and run CBL, confirm TOC above Ojo Alamo zone before proceeding. If TOC not above Ojo Alamo adjust initial plug as necessary.
6. Spot 68 sx Class B Cement on top of CICR. (est'd TOC @ 2,171'). WOC, test casing integrity.
7. Circulate hole with mud laden fluid.
8. Perforate at 1,049', if injection set CICR @ 999', then place balanced cement plug from 1,049' – 949' plus 100% excess with a total of 55 sx Class B cement.
9. Perforate at 155', circulate balanced cement plug from 155' to surface with 50 sx Class B cement. 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

Jicarilla H #3
Rio Arriba County, NM

All depths include KB
TD – 2,908'; PBTD – 2,859'

Surface Csg: 3 jts 8-5/8" 32# J-55
Setting Depth: 105'

Cement
70sx Cement
Cmt circulated

Production Csg: 70 jts 5-1/2" 15.5# J-55
Setting Depth: 2907'

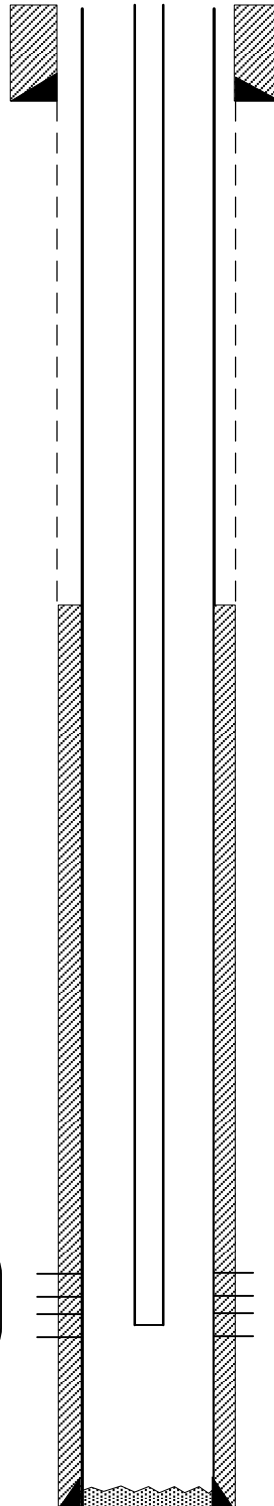
Cement:
100 sx cement
TOC unknown

Prepared by: J. Marschall
Updated by: JRyza
Date: 04/19/2022

KB = 8'
GL = 6,726'
API# 30-039-05614

Spud Date: 04/12/1957
Date Completed: 04/25/1957

Nacimiento – 999'
Ojo Alamo – 2,271'
Kirtland – 2,458'
Fruitland – 2,561'
Picture Cliffs – 2,776'



1-1/4" Tubing to 2,829' – 90 jts

Picture Cliffs Perfs (1957):
Perfs 2,790' - 2830' (4spf)

PBTD: 2,859'

MorningStar Operating, LLC

Jicarilla H #3
Rio Arriba County, NM

All depths include KB
TD – 2,908'; PBTD – 2,859'

Surface Csg: 3 jts 8-5/8" 32# J-55
Setting Depth: 105'

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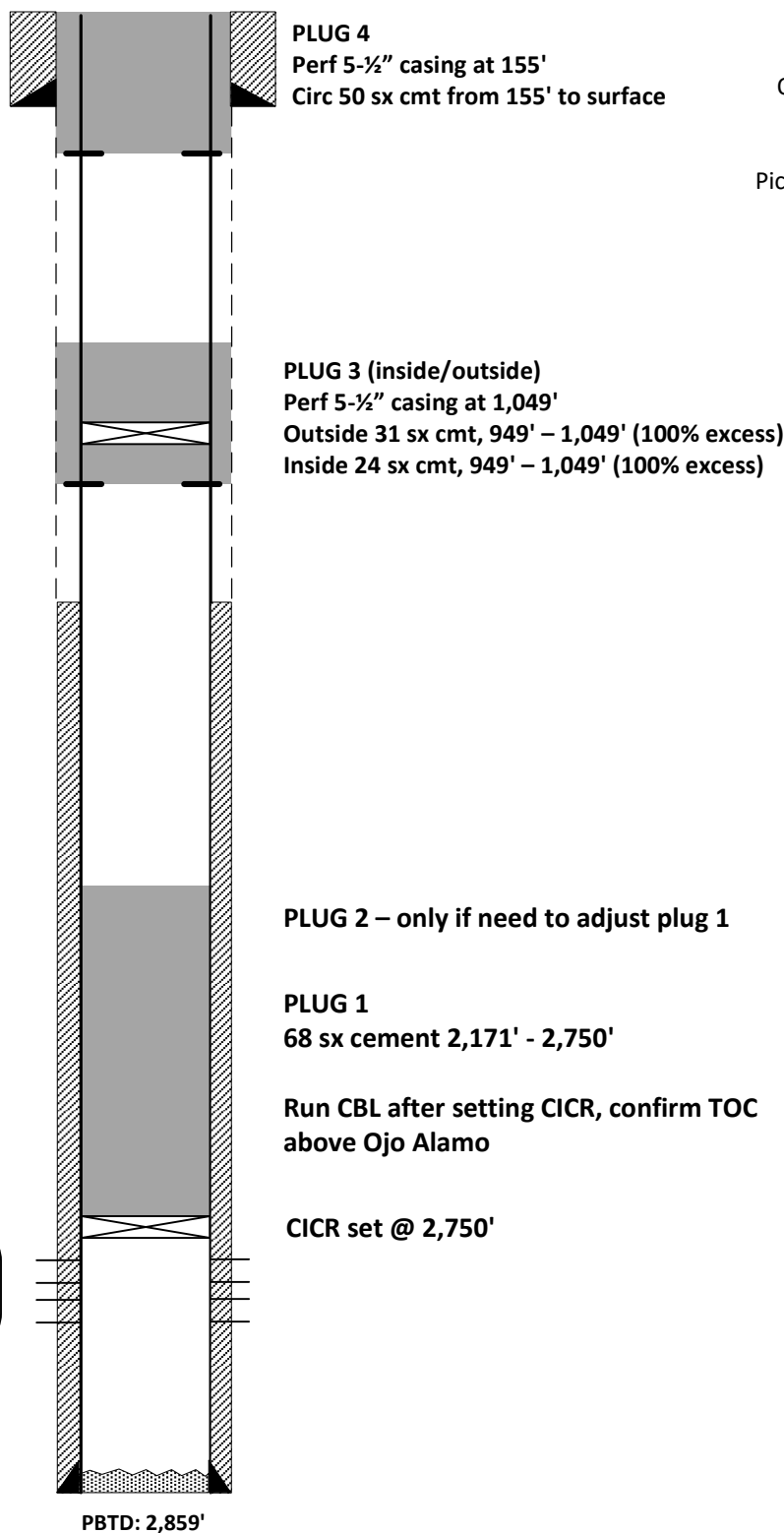
Proposed P&A

Prepared by: J. Marschall
Updated by: JRyza
Date: 04/19/2022

KB = 8'
GL = 6,726'
API# 30-039-05614

Spud Date: 04/12/1957
Date Completed: 04/25/1957

Nacimiento – 999'
Ojo Alamo – 2,271'
Kirtland – 2,458'
Fruitland – 2,561'
Picture Cliffs – 2,776'



P&A RECLAMATION PLAN
Jicarilla H #3
T24N R4W SEC. 5
36.33412°, -107.27451°
API: 30-039-05614

General Notes:

- MorningStar Operating LLC will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- MorningStar Operating LLC will notify the BLM, Jicarilla Oil and Gas and BIA at least 48 hours prior to commencing reclamation earthwork.
- MorningStar Operating LLC will notify the BLM, Jicarilla Oil and Gas and BIA at least 48 hours prior to commencing with seeding application.
- Underground production piping on the well site will be removed.
- Disturbance will be limited to the well site footprint and access road boundaries.
- Surface equipment and trash will be removed.
- The P&A marker will be permanent and comply with Tribal regulations. Marker will be a plate installed at ground level.

Well Site Reclamation:

- Mature healthy vegetation on the site perimeter will be left to the extent practical.
- The well pad and surrounding area are flat and consists of loam soil.
- All disturbed areas will be seeded in accordance with the FFO Bare Soil Reclamation Procedure C.
- The pad will be ripped, scarified, or disked to a depth adequate for establishing a suitable root zone.
- Prior to seeding, the disturbed areas will be left with a rough surface to facilitate moisture and seed retention.
- Upon removal of the production pit, soil will be sampled and tested.
- A fence will be placed across the entrance of the reclaimed location adjacent to main lease road to prevent future access to the reclaimed well site as well as around the perimeter of the seeded surface area.
- Enterprise meter facilities will be removed.

Access Road Reclamation:

- Location is directly adjacent to main lease road that is utilized by other operators to access their leases. No access road reclamation is necessary.

Revegetation:

The planned initial seed mixture and application rates for the Jicarilla South Mix identified during the site visit will be as follows. The seed application rates may be adjusted according to various methods of application.

SEED	LBS/ACRE*	% OF MIX	% LIVE SEED/ACRE
Alkali Sacaton Salado Variety	1.0	25	0.25
Western Wheatgrass Arriba or Barton Variety	8.0	25	2.00
Intermediate Wheatgrass Amur or Oahe Variety	9.0	20	1.80
Galleta	2.0	20	0.40
BlueGrama	1.0	10	0.10

- 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.
- After completion of seeding, site will be mulched and crimped.
- The need for soil amendments is not expected or proposed.

Weed Management:

- MorningStar Operating's objective is to implement an integrated weed management program to control weed populations and establish desirable vegetation.
- No noxious weeds were noted during the onsite visit.

- 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 LLC will submit a Sundry Notice informing the BLM and Jicarilla Agencies the earthwork and seeding are completed.
- After establishment of adequate vegetation, MorningStar Operating LLC will coordinate with the BLM, Jicarilla Oil and Gas and BIA to evaluate 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 BLM and Jicarilla Oil and Gas and BIA that adequate vegetation growth has been obtained.

Attachments:

- Noxious Weed Form

Onsite Noxious Weed Form

If noxious weeds are found during the onsite, fill out form and submit to FFO weed coordinator

Operator MorningStar Operating LLC_Surveyor(s) Roger Herrera

Well Name and Number Jicarilla H #3 Date 4/13/2022

Location: Township, Range, Section T 24N R 4W Sec 5

Location of Project NAD 83 Decimal Degrees Lat: 36.33412 Long: -107.27451

Class A Noxious Weed - Check Box if Found

<input type="checkbox"/>	Alfombrilla	<input type="checkbox"/>	Diffuse knapweed	<input type="checkbox"/>	Hydrilla	<input type="checkbox"/>	Purple starthistle	<input type="checkbox"/>	Yellow toadflax.
<input type="checkbox"/>	Black henbane	<input type="checkbox"/>	Dyer's woad	<input type="checkbox"/>	Leafy spurge	<input type="checkbox"/>	Ravenna grass	<input type="checkbox"/>	
<input type="checkbox"/>	Camelthorn	<input type="checkbox"/>	Eurasian watermilfoil	<input type="checkbox"/>	Oxeye daisy	<input type="checkbox"/>	Scotch thistle	<input type="checkbox"/>	
<input type="checkbox"/>	Canada thistle	<input type="checkbox"/>	Giant salvinia	<input type="checkbox"/>	Parrotfeather	<input type="checkbox"/>	Spotted knapweed	<input type="checkbox"/>	
<input type="checkbox"/>	Dalmatian toadflax	<input type="checkbox"/>	Hoary cress	<input type="checkbox"/>	Purple loosestrife	<input type="checkbox"/>	Yellow starthistle	<input type="checkbox"/>	

Class B Noxious Weed-Check Box if Found

<input type="checkbox"/>	African rue	<input type="checkbox"/>	Perennial oenotherweed	<input type="checkbox"/>	Russian knapweed	<input type="checkbox"/>	Tree of heaven
<input type="checkbox"/>	Chicory	<input type="checkbox"/>	Musk thistle	<input type="checkbox"/>	Poison hemlock	<input type="checkbox"/>	
<input type="checkbox"/>	Halogeton	<input type="checkbox"/>	Malta starthistle	<input type="checkbox"/>	Teasel	<input type="checkbox"/>	

Comments:

No noxious weeds were observed.

FFO Representative:

sign and date

Operator Representative

sign and date

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 101989

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 101989
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	4/29/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	4/29/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	4/29/2022