

Well Name: COUNTY FAIR FED COM	Well Location: T25S / R35E / SEC 2 / LOT 4 / 32.166036 / -103.342582	County or Parish/State: LEA / NM
Well Number: 602H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM101608	Unit or CA Name: NMNM143015	Unit or CA Number: NMNM143015
US Well Number: 3002547492	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Plug and Abandonment
Date Sundry Submitted: 08/23/2021	Time Sundry Submitted: 11:53
Date proposed operation will begin: 09/15/2021	
Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to plug and abandon the County Fair Fed Com 602H (API: 30-025-47492) per the attached procedure.	

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

- Procedure Description
- Franklin_Mountain___County_Fair_Fed_Com_602H___Final_Surveys_20210823115317.pdf
 - CF_602H_PA_Procedure_WBD_8_19_2021_20210823115301.pdf
 - CF_602H_Current_WBD_PA_Procedure_8_19_2021_20210823115252.pdf
 - CF_602H_PA_Procedure_20210823115240.pdf

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Well Number: 602H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM101608	Unit or CA Name: NMNM143015	Unit or CA Number: NMNM143015
US Well Number: 3002547492	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Specialist Review

County_Fair_Fed_Com_602H_Sundry_ID_2630069_20210824130415.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: RACHAEL OVERBEY	Signed on: AUG 23, 2021 11:53 AM
Name: FRANKLIN MOUNTAIN ENERGY LLC	
Title: Director – Operations Planning and Regulatory	
Street Address: 2401 E 2nd Avenue, Suite 300	
City: Denver	State: CO
Phone: (720) 414-7868	
Email address: roverbey@fmellc.com	

Field Representative

Representative Name: Mark Hinaman		
Street Address: 44 Cook Street, Suite 1000		
City: Denver	State: CO	Zip: 80206
Phone: (970)629-0668		
Email address: mhinaman@fmellc.com		

BLM Point of Contact

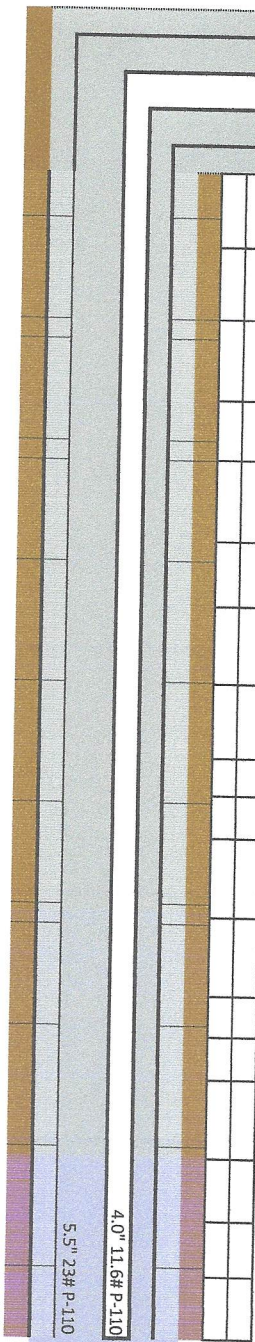
BLM POC Name: LONG VO	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 08/24/2021
Signature: Long Vo	

KB:	30'	13-3/8"	54.5#	J-55	1348'
String	13-3/8"	TOC	Plug	5	9-5/8"
9-5/8"	Surface	60'	3	40#	5451'
7-5/8"	Surface	11,705'			
5-1/2"	11,230'				
4"					
Geo Tops	TVD	MD	Plug		
Salado T	1394	1394	5		
Salado B	3650	3650	4		
Vates	3806	3809	4		
Delaware	5162	5165	3		
Bone Spring	8837	8847	2		
3BS Top	11781	11866	1		
5.5" Details					
Casing:	5.5" 23# P-110				
Est FP:	3,727' MD				
Est TOC:	11,075' MD				
PBTMD:	21,958' MD				
PBTVD:	12,160' MD				
KOP	11,332' MD				
29.3 deg	11,568' MD				
61.4 deg	12,039' MD				
89.4 deg	12,380' MD				
TVD	11,948' @ 89.4 deg				

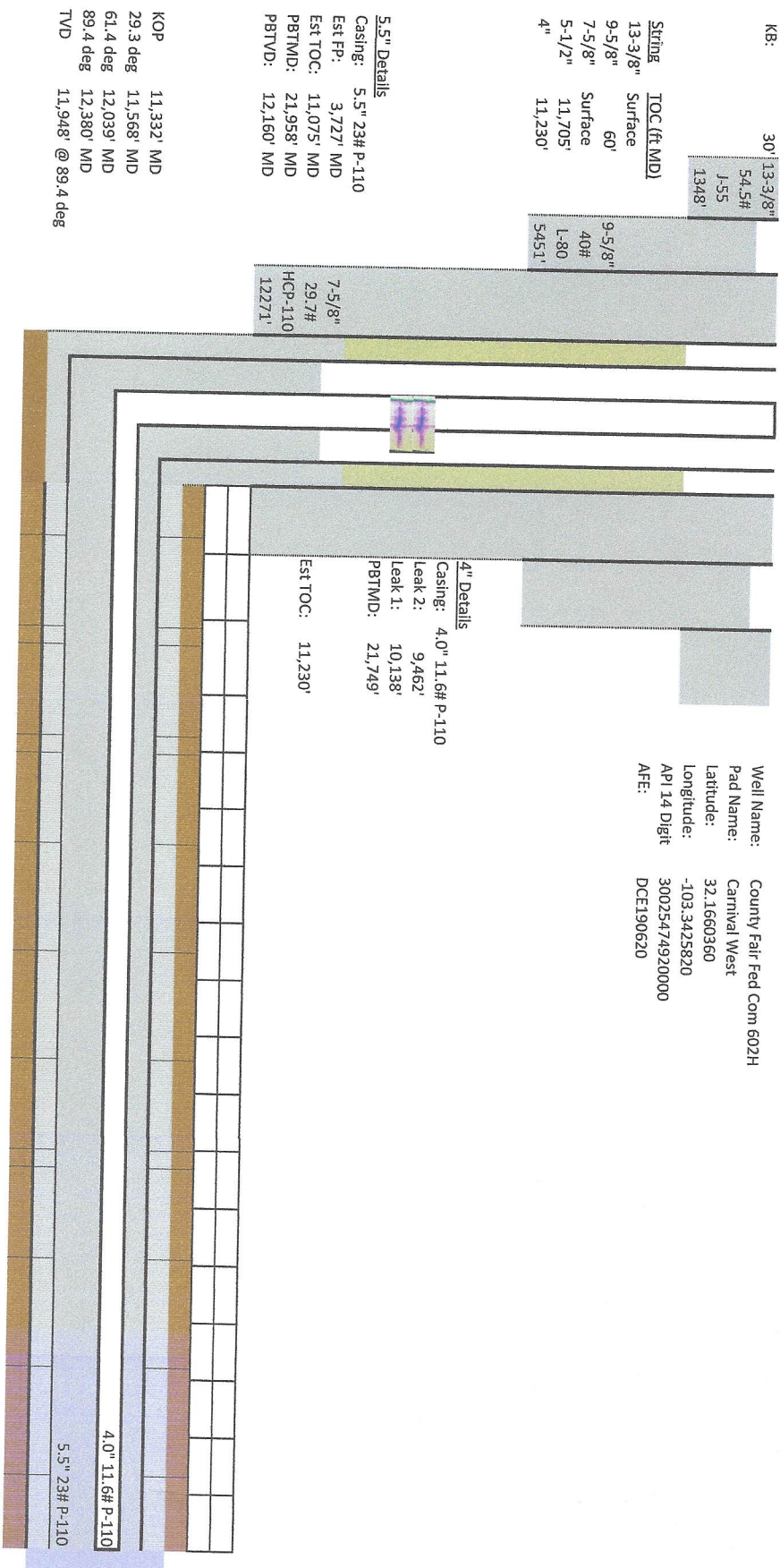
Well Name: County Fair Fed Corn 602H
Pad Name: Carnival West
Latitude: 32.1660360
Longitude: -103.3425820
API 14 Digit: 30025474920000
A/E: DCEI90620
Attempt to cut 5.5" casing @ free point (FP)

Color Legend	
Old Cement	
New Cement	
Contingency Balanced Plug	
Residual Drilling Solids	
Mud Laden Fluids	
Cast from Bridge Plug	

Tag Req	4" Details														
	Plug Details				Min Req (ALL DEPTHS MD)				Primary Plan				Contingency Plan		
	Plug #	Type	Depth	TOC Min	Length	Sx	bbl	TOC Calc	Length	Sx	bbl	TOC Calc	Length	P2P ft	Cem
Tag Req	1	CIBP/Bal	11,332'	24,699'	1,090'	25	4.7	15,913'	4,584'	N/A	N/A	N/A	N/A	N/A	H
	2	P&S	8,897'	8,698'	199'	25	4.7	8,674'	199'	25	4.7	8,674'	223'	7,016'	H
	3	P&S	5,698'	5,060'	638'	102	24.1	5,060'	638'	33	6.3	3,564'	638'	3,000'	C
	4	P&S	3,859'	3,564'	296'	59	11.1	3,564'	296'	33	6.3	3,564'	296'	1,201'	C
	5	P&S	1,444'	1,285'	159'	288	54.5	0'	1,444'	162	31	0'	1,444'	2,120'	C
Tag Req	6														
	Casing: 4.0" 11.6# P-110														
	PBTRMD: 21,749'														
	Cut Csg: 11,200'														
	Est TOC: 11,230'														



APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED





8/20/2021

Engineer: Mark Hinaman
Cell: 970-629-0668

PLUG AND ABANDONMENT PROCEDURE

County Fair Fed Com 602H

Step	Description of Work
1	Note: Production Casing = 4.0" OD, 11.6#/ft inside 5.5" OD 23#/ft P-110. See WBD for full casing design.
2	Provide required notice to regulatory agencies (BLM Lea county office: call 575-393-3612 & NMOC) 24 hours prior to commencing any plugging operations. Contact Operations Superintendent or lead operator at least 24 hr prior to rig move. Request they confirm location is clean and ready to accept rig.
3	Prepare location for base beam equipped rig. MIRU rental 2-7/8" tubing string (approximately 11,500' + ~300' 2-3/8").
4	MIRU, monitor pressure on well. If any pressure present, call engineer. ND WH. NU 5M BOP. Unseat landing jt, LD.
5	MRIU WL. Run GR/JB run to ensure 4.0" pipe clear of damage and debris. RIH w/ 4.0" CIBP to KOP (11,332'). Set CIBP.
6	Run free point tool to identify depth of free 4.0" casing. RCBL shows top of cement at approximately 11,200'. Procedure planned for 11,200' casing cut, but will be adjusted according to free point results.
7	RIH w/ casing cutters. Chemically cut casing at free point. RDMO WL. RU laydown machine & 4.0" casing tongs. POOH 4.0" casing laying down. Be careful to count joints of casing. Set aside joints 382, 383, 384, 385, and 386. Ensure all relevant vendor representatives are on location. ND 4.0" BOP, NDTH.
8	RIH w/ 200' 2-3/8" tubing then cross over to 2-7/8" tubing. RIH to CIBP setting depth (~11,332') and set 25 sx balanced plug. POOH 400' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement.
9	POOH tubing and lay down 2-3/8" tubing. Stand back ~9,000' of 2-7/8" tubing. LD remainder.
10	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 8,897'.
11	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 40 sx class H cement plug into 5.5" / 7-5/8" annulus from 8,897' to 8,698' to cover Bone Spring top. 45 sx
12.a	RIH w/ 2-7/8" tubing and attempt 40 sx class H cement squeeze. POOH 300' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hr. Tag cement. POOH and stand back ~5,800' of tubing. LD remainder. 45 sx
12.b	If unable to inject, RIH 2-7/8" tubing and place 25 sx class H cement balanced plug from 8,897' to 8,674' inside of 5.5" casing. POOH 300' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement. POOH and stand back ~5,800' of tubing. LD remainder.
13	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 5,706'.
14	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate solids to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 102 sx class C cement plug into 5.5" / 7-5/8" annulus from 5,698' to 5,060' to cover top of Delaware formation and 9-5/8" casing shoe. 110 sx
15.a	RIH w/ 2-7/8" tubing and attempt 102 sx class C cement squeeze. POOH 700' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hr. Tag cement. POOH and stand back ~3,800' of tubing. 110 sx
15.b	If unable to inject, RIH 2-7/8" tubing and place 54 sx class C cement balanced plug from 5,706' to 5,110' inside of 5.5" casing. POOH 700' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement. POOH and stand back ~3,900' of tubing. LD remainder. 5060'
16	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 5,698'. 3869'
17	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate solids to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 59 sx class H cement plug into 5.5" / 7-5/8" annulus from 3,859' to 3,564' to cover Yates top and Salado base.
18.a	RIH w/ 2-7/8" tubing and attempt 59 sx class C cement squeeze. POOH 400' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hr. Tag cement. POOH and stand back ~1,500' of tubing. LD remainder
18.b	If unable to inject, RIH 2-7/8" tubing and place 33 sx class C cement balanced plug from 3,859' to 3,564' inside of 5.5" casing. POOH 400' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement. POOH and stand back ~1,500' of tubing. LD remainder.
19	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 1,444'.



8/20/2021

 Engineer: Mark Hinaman
 Cell: 970-629-0668

20	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate solids to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 288 sx class C cement plug into 5.5" / 7-5/8" annulus from 1,444' to surface to cover top of Salado and surface casing shoe.
21.a	RIH w/ 2-7/8" tubing and attempt 288 sx class C cement squeeze. POOH to surface and clear tubing and annulus of cement. WOC 4 hr. Tag cement. LD tubing.
21.b	<p>If unable to inject, RIH 2-7/8" tubing and place 162 sx class C cement balanced plug from 1,444' to 150' from surface inside of 5.5" casing. POOH to surface and clear tubing and annulus of cement. WOC 4 hrs. Tag cement. Cement is required across all strings of casing 100' from surface:</p> <ul style="list-style-type: none"> - RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 150'. - RIH w/ 2-7/8" tubing and attempt 25 sx class C cement squeeze. POOH to surface and clear tubing and annulus of cement. WOC 4 hr. Tag cement. LD tubing.
22	Top out top 60' of 9-5/8" / 13-3/8" casing annulus w/ class C cement as necessary.
23	Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to cmccoy@fmellc.com and mark@fmellc.com within 24 hrs of the completion of the job.
24	Supervisor save all invoices, logs, and reports to well file on cloud file storage drive.
25	Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
26	Excavate hole around surface casing enough to allow welder to cut remaining casing strings to bottom of cellar or 3' below ground level (whichever is deeper). BLM is to be notified minimum of 4 hours prior to wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut shall commence within ten (10) calendar days of the well being plugged. Cap well 1/4" steel plate. Leave weep hole.
27	MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout and 9-5/8" / 13-3/8" annulus to surface. .
28	Spot weld on steel marker plate. Marker should contain Well name, Well number, name of the operator, lease serial number, surveyed location (1/4 1/4 section, section, township, and range) and API number.
29	Properly abandon flowlines.
30	Back fill hole with fill. Clean location, level.
31	Within 30 days after plugging work is completed, file four copies (one original & three copies) of the Subsequent Report of Abandonment, Form 3160-5, to the BLM. 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. Submit required regulatory filings to the NMOCD.
32	Clean location of any trash, junk, and other waste material.

**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 (LPC Habitat)**

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. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): 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.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

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.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



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 (Contact service companies, allowing plenty of time to have the riggers 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 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 (Office), 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

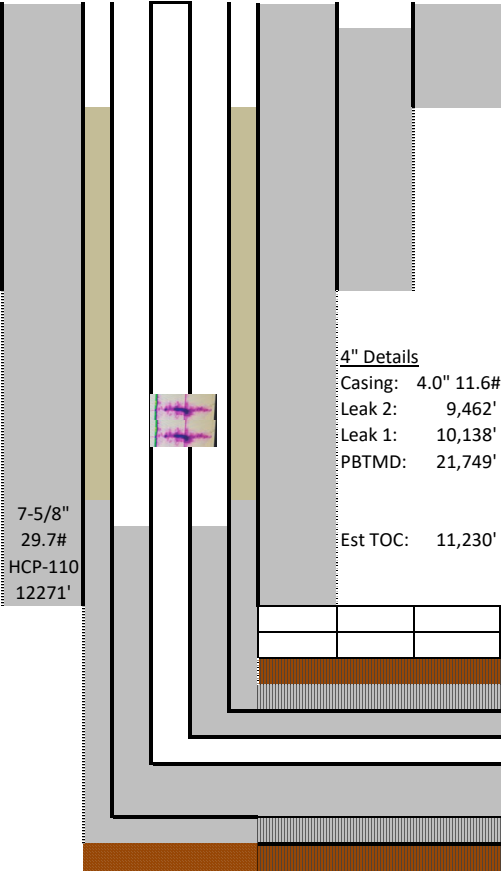
KB: 30' 13-3/8"
54.5#
J-55
1348'

String	TOC (ft MD)	
13-3/8"	Surface	
9-5/8"	60'	9-5/8"
7-5/8"	Surface	40#
5-1/2"	11,705'	L-80
4"	11,230'	5451'

5.5" Details

Casing: 5.5" 23# P-110
Est FP: 3,727' MD
Est TOC: 11,075' MD
PBTMD: 21,958' MD
PBTVD: 12,160' MD

KOP 11,332' MD
29.3 deg 11,568' MD
61.4 deg 12,039' MD
89.4 deg 12,380' MD
TVD 11,948' @ 89.4 deg



Well Name: County Fair Fed Com 602H
Pad Name: Carnival West
Latitude: 32.1660360
Longitude: -103.3425820
API 14 Digit: 30025474920000
AFE: DCE190620

4" Details

Casing: 4.0" 11.6# P-110
Leak 2: 9,462'
Leak 1: 10,138'
PBTMD: 21,749'

Est TOC: 11,230'

4.0" 11.6# P-110

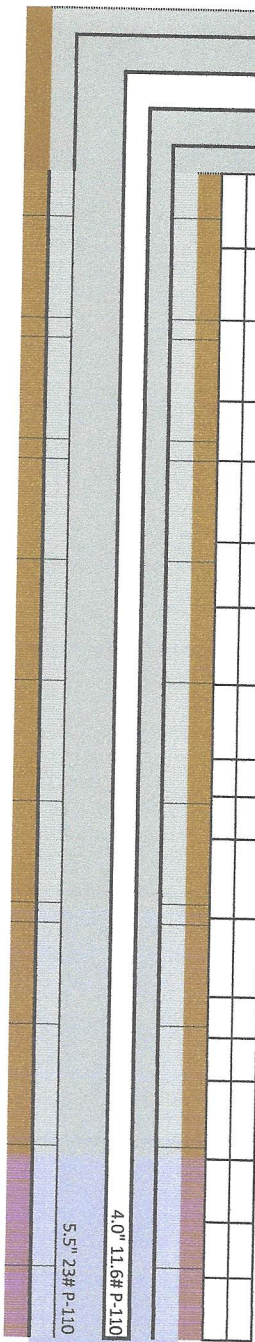
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KB:	30'	13-3/8"	54.5#	J-55	1348'
String	13-3/8"	TOC	Plug	5	9-5/8"
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7-5/8"	Surface	11,705'			
5-1/2"	Surface	11,230'			
4"					
Geo Tops	TVD	MD	Plug		
Salado T	1394	1394	5		
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3BS Top	11781	11866	1		
5.5" Details					
Casing:	5.5" 23# P-110				
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PBTVD:	12,160' MD				
KOP	11,332' MD				
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89.4 deg	12,380' MD				
TVD	11,948' @ 89.4 deg				

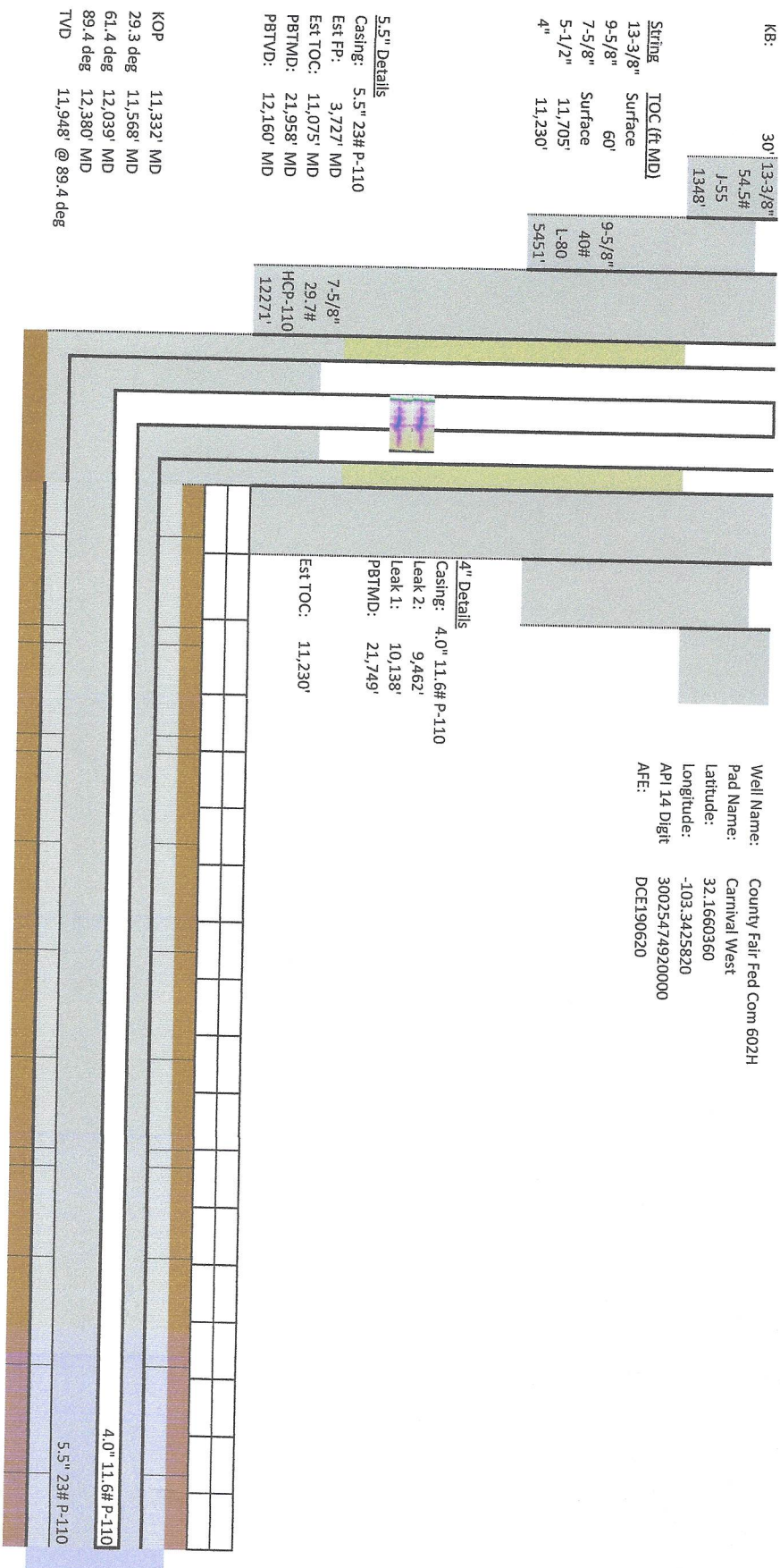
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Attempt to cut 5.5" casing @ free point (FP)

Color Legend	
Old Cement	
New Cement	
Contingency Balanced Plug	
Residual Drilling Solids	
Mud Laden Fluids	
Cast from Bridge Plug	

Plug Details		Primary Plan				Contingency Plan			
Plug #	Type	Min Req	TOC Min	Length	Sx	bbl	TOC Calc	Length	P2P ft
1	CIBP/Bal	11,332'	24,699'	10,367'	25	4.7	15,913'	N/A	N/A
2	P&S	8,897'	8,698'	199'	25	4.7	8,674'	223'	7,016'
3	P&S	5,698'	5,060'	638'	33	6.3	3,564'	296'	3,000'
4	P&S	3,859'	3,564'	296'	162	31	0'	1,444'	1,201'
5	P&S	1,444'	1,285'	159'					C



APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED





8/20/2021

 Engineer: Mark Hinaman
 Cell: 970-629-0668

PLUG AND ABANDONMENT PROCEDURE

County Fair Fed Com 602H

Step	Description of Work
1	Note: Production Casing = 4.0" OD, 11.6#/ft inside 5.5" OD 23#/ft P-110. See WBD for full casing design.
2	Provide required notice to regulatory agencies (BLM Lea county office: call 575-393-3612 & NMOC) 24 hours prior to commencing any plugging operations. Contact Operations Superintendent or lead operator at least 24 hr prior to rig move. Request they confirm location is clean and ready to accept rig.
3	Prepare location for base beam equipped rig. MIRU rental 2-7/8" tubing string (approximately 11,500' + ~300' 2-3/8").
4	MIRU, monitor pressure on well. If any pressure present, call engineer. ND WH. NU 5M BOP. Unseat landing jt, LD.
5	MRIU WL. Run GR/JB run to ensure 4.0" pipe clear of damage and debris. RIH w/ 4.0" CIBP to KOP (11,332'). Set CIBP.
6	Run free point tool to identify depth of free 4.0" casing. RCBL shows top of cement at approximately 11,200'. Procedure planned for 11,200' casing cut, but will be adjusted according to free point results.
7	RIH w/ casing cutters. Chemically cut casing at free point. RDMO WL. RU laydown machine & 4.0" casing tongs. POOH 4.0" casing laying down. Be careful to count joints of casing. Set aside joints 382, 383, 384, 385, and 386. Ensure all relevant vendor representatives are on location. ND 4.0" BOP, NDTH.
8	RIH w/ 200' 2-3/8" tubing then cross over to 2-7/8" tubing. RIH to CIBP setting depth (~11,332') and set 25 sx balanced plug. POOH 400' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement.
9	POOH tubing and lay down 2-3/8" tubing. Stand back ~9,000' of 2-7/8" tubing. LD remainder.
10	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 8,897'.
11	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 40 sx class H cement plug into 5.5" / 7-5/8" annulus from 8,897' to 8,698' to cover Bone Spring top. 45 sx
12.a	RIH w/ 2-7/8" tubing and attempt 40 sx class H cement squeeze. POOH 300' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hr. Tag cement. POOH and stand back ~5,800' of tubing. LD remainder. 45 sx
12.b	If unable to inject, RIH 2-7/8" tubing and place 25 sx class H cement balanced plug from 8,897' to 8,674' inside of 5.5" casing. POOH 300' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement. POOH and stand back ~5,800' of tubing. LD remainder.
13	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 5,706'.
14	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate solids to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 102 sx class C cement plug into 5.5" / 7-5/8" annulus from 5,698' to 5,060' to cover top of Delaware formation and 9-5/8" casing shoe. 110 sx
15.a	RIH w/ 2-7/8" tubing and attempt 102 sx class C cement squeeze. POOH 700' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hr. Tag cement. POOH and stand back ~3,800' of tubing. 110 sx
15.b	If unable to inject, RIH 2-7/8" tubing and place 54 sx class C cement balanced plug from 5,706' to 5,110' inside of 5.5" casing. POOH 700' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement. POOH and stand back ~3,900' of tubing. LD remainder. 5060'
16	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 5,698'. 3869'
17	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate solids to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 59 sx class H cement plug into 5.5" / 7-5/8" annulus from 3,859' to 3,564' to cover Yates top and Salado base.
18.a	RIH w/ 2-7/8" tubing and attempt 59 sx class C cement squeeze. POOH 400' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hr. Tag cement. POOH and stand back ~1,500' of tubing. LD remainder
18.b	If unable to inject, RIH 2-7/8" tubing and place 33 sx class C cement balanced plug from 3,859' to 3,564' inside of 5.5" casing. POOH 400' and circulate at least 1 circulation to clear tubing and annulus of cement. WOC 4 hrs. RIH and tag cement. POOH and stand back ~1,500' of tubing. LD remainder.
19	RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 1,444'.



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20	Attempt to inject into perfs. If able to inject into perfs, then attempt to circulate solids to surface. Call engineer to discuss potential to cement entire 5.5" / 7-5/8" annulus. Primary plan is to squeeze 288 sx class C cement plug into 5.5" / 7-5/8" annulus from 1,444' to surface to cover top of Salado and surface casing shoe.
21.a	RIH w/ 2-7/8" tubing and attempt 288 sx class C cement squeeze. POOH to surface and clear tubing and annulus of cement. WOC 4 hr. Tag cement. LD tubing.
21.b	<p>If unable to inject, RIH 2-7/8" tubing and place 162 sx class C cement balanced plug from 1,444' to 150' from surface inside of 5.5" casing. POOH to surface and clear tubing and annulus of cement. WOC 4 hrs. Tag cement. Cement is required across all strings of casing 100' from surface:</p> <ul style="list-style-type: none"> - RUWL & PU 1 x 1' 3-1/8" perf guns w/ 3 spf, 0.5" dia 120 deg phasing (only need to perforate 5.5" casing - ensure perfs won't perf 7-5/8" casing). Shoot 1' of squeeze holes at 150'. - RIH w/ 2-7/8" tubing and attempt 25 sx class C cement squeeze. POOH to surface and clear tubing and annulus of cement. WOC 4 hr. Tag cement. LD tubing.
22	Top out top 60' of 9-5/8" / 13-3/8" casing annulus w/ class C cement as necessary.
23	Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to cmccoy@fmellc.com and mark@fmellc.com within 24 hrs of the completion of the job.
24	Supervisor save all invoices, logs, and reports to well file on cloud file storage drive.
25	Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
26	Excavate hole around surface casing enough to allow welder to cut remaining casing strings to bottom of cellar or 3' below ground level (whichever is deeper). BLM is to be notified minimum of 4 hours prior to wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut shall commence within ten (10) calendar days of the well being plugged. Cap well 1/4" steel plate. Leave weep hole.
27	MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout and 9-5/8" / 13-3/8" annulus to surface. .
28	Spot weld on steel marker plate. Marker should contain Well name, Well number, name of the operator, lease serial number, surveyed location (1/4 1/4 section, section, township, and range) and API number.
29	Properly abandon flowlines.
30	Back fill hole with fill. Clean location, level.
31	Within 30 days after plugging work is completed, file four copies (one original & three copies) of the Subsequent Report of Abandonment, Form 3160-5, to the BLM. 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. Submit required regulatory filings to the NMOCD.
32	Clean location of any trash, junk, and other waste material.

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 (LPC Habitat)

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. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): 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.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

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.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



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 (Contact service companies, allowing plenty of time to have the riggers 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 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 (Office), 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 45152

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 45152
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
pkautz	BLM NOI P&A accepted for record	9/22/2021