	UNITED STATES PARTMENT OF THE INTER EAU OF LAND MANAGEM	OCD Hobbs HOBE		OMB No. 1004-0137 Expires: January 31, 2018		
	NOTICES AND REPORTS form for proposals to dril					
				7. If Unit of CA/Agreement, Name and/or No.		
SUBMIT IN TRIPLICATE - Other instructions on page 2   1. Type of Well				14-08-0001014277 (NMNM70953X)		
Oil Well Gas Well Vother Natural Gas Storage				8. Well Name and No. GRM UNIT #4		
2. Name of Operator Enstor Grama Ridge Storage and Transportation, LLC				9. API Well No. 30-025-21334		
3a. Address 20329 State Hwy 249, Suite 500 Houston, TX 77070 3b. Phone No. (incl. (281) 374-3050				10. Field and Pool or Exploratory Area Morrow Formation, Grama Ridge		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2310' FNL and 2310' FWL of Section 4, Township 22S, Range 34E				11. Country or Parish, State Lea County, NM		
12. CHE	CK THE APPROPRIATE BOX(ES)	TO INDICATE NATURE	OF NOTIO	CE, REPORT OR O	THER DATA	
TYPE OF SUBMISSION		ТҮР	E OF ACT	ION		· · · · · · · · · · · · · · · · · · ·
Notice of Intent	Acidize	Deepen Hydraulic Fracturing		INT TO PA		Am
Subsequent Report	Casing Repair	New Construction		mplete	P&A R	
Final Abandonment Notice	Change Plans	Plug and Abandon Plug Back	_ `	orarily Abandor Disposal		
failed test, the well was immedi low deliverability (See attached BLM Form 3160-5 Notice of Int risky and unsound. This "Amen	NMOCD Bradenhead test becaus iately shut-in. After review, it was I Plugging Procedure and Schema ent was approved on 1/23/18; how ided" P&A procedure is more ope is December 2018. This P&A has in shut-in until P&A	determined that the well atics). wever, after further revie rationally sound and has	will be plu w it was d already t	ugged and abando letermined the plug been informally rev	oned due to age, cost gging procedure was	t to repair, and operationally
			SEE ATTACHED FOR			
14. I hereby certify that the foregoing is		ed)			TIONS OF A	-
Nick Nicodemus		Title				
Signature Date				07/05/2018		
	THE SPACE FOR	FEDERAL OR STA	TE OFI	CE USE		
Approved by	R. Com	Title S	mps	AGT	Date <b>7</b> -1	18-18
Conditions of approval, if any, are attach certify that the applicant holds legal or en which would entitle the applicant to cond	quitable title to those rights in the sub		arls.	bad	·	
The 8 U.S.C Section 1001 and Title 43 any false, fictitious or fraudulent stateme			and willfu	ally to make to any c	lepartment or agency o	f the United States
(Instructions on page 2)			F( N	DR RECO	08/07/201	¥

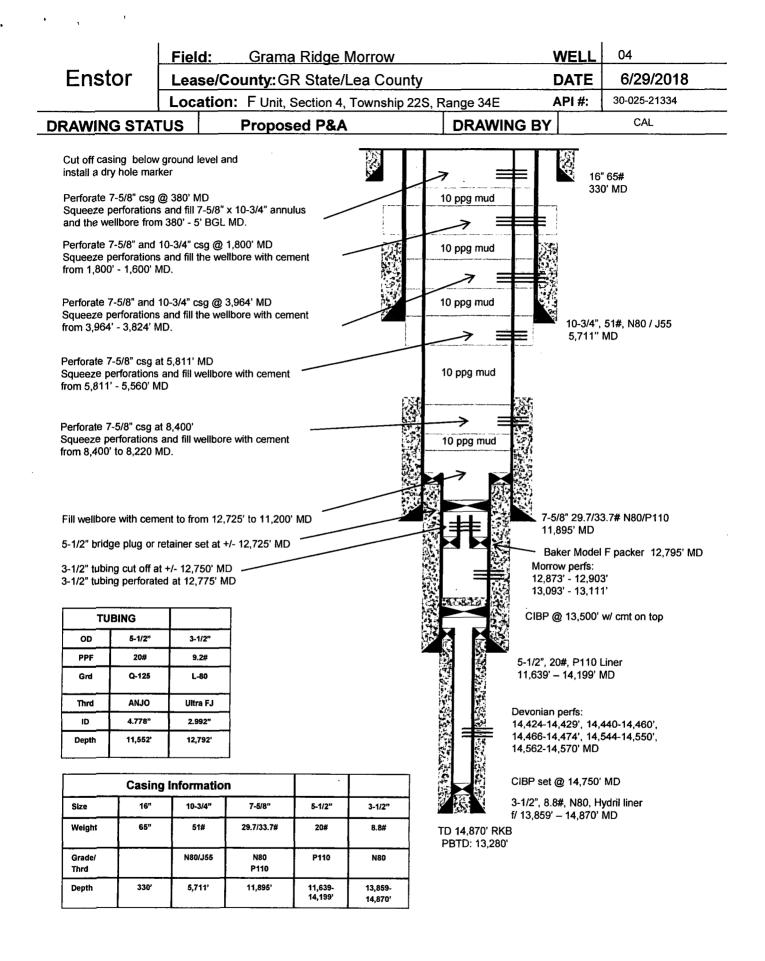
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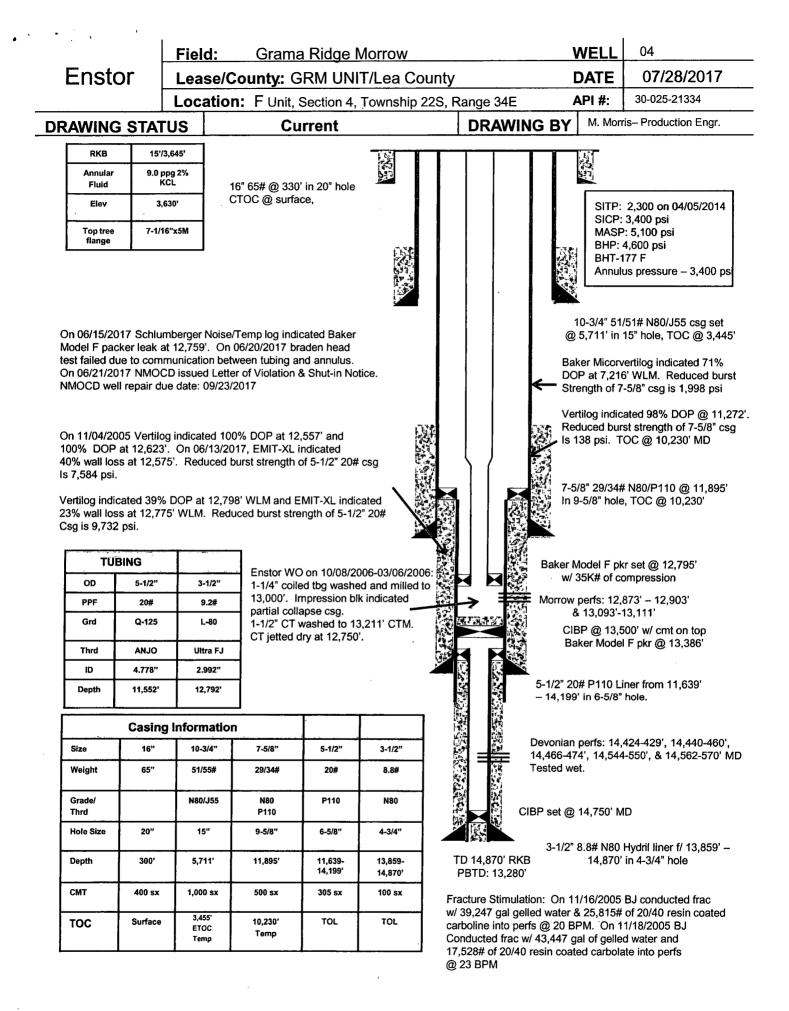
#### **GRAMA RIDGE WELL 4**

### **P&A Procedure**

#### 6-29-2018

- 1. Perforate the 3-1/2" tubing at approximately 12,775'.
- 2. Circulate and kill the well with 10 ppg drilling fluid (mud) through the perforations at 12.775'.
- 3. Cut the 3-1/2" tubing at approximately 12,750'.
- 4. Pull and lay down the 5-1/2" x 3-1/2" tubing.
- 5. Set a 5-1/2" bridge plug or cement retainer at approximately 12,725'.
- 6. Fill the 5-1/2" and 7-5/8" wellbore with cement from 12,725' to 11,200'.
- 7. Wait on cement at least 4 hours and tag the top of cement
- 8. Perforate 7-5/8" casing at 8,400'.
- 9. Squeeze cement in the perforations and fill the 7-5/8" wellbore from 8,400' to 8,220'.
- 10. Wait on cement at least 4 hours and tag the top of cement
- 11. Perforate 7-5/8" casing at 5,811'.
- 12. Squeeze cement in the perforations and fill the 7-5/8" wellbore from 5,811' to 5,560'.
- 13. Wait on cement at least 4 hours and tag the top of cement
- 14. Perforate 7-5/8" and 10-3/4" casings at 3,964'.
- 15. Squeeze cement in the perforations and fill the 7-5/8" wellbore from 3,964' to 3,824'.
- 16. Wait on cement at least 4 hours and tag the top of cement
- 17. Perforate 7-5/8" and 10-3/4" casings at 1,800'.
- 18. Squeeze cement in the perforations and fill the 7-5/8" wellbore from 1,800' to 1,600'.
- 19. Wait on cement at least 4 hours and tag the top of cement
- 20. Perforate 7-5/8" casing at 380'.
- 21. Squeeze cement in the perforations and fill the 7-5/8" x 10-3/4" annulus and 7-5/8" wellbore from 380' to 5' below ground level.
- 22. Wait on cement at least 4 hours and tag the top of cement
- 23. Cut the 7-5/8" and 10-3/4" casings below ground level.
- 24. Install a permanent abandonment marker.





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

If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. <u>Mud Requirement</u>: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. <u>Cement Requirement</u>: 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. <u>Below Ground Level Cap (Lesser Prairie-Chicken Habitat)</u>: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off. 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 <sup>1</sup>/<sub>4</sub> 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. <u>Subsequent Plugging Reporting</u>: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. <u>Show date well was plugged</u>.

8. <u>Trash</u>: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

<u>Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:</u> From March 1<sup>st</sup> through June 15<sup>th</sup> 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