

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

FEB 12 2013

RECEIVED

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Enstor Grama Ridge Storage and Transportation LLC

3a. Address

20329 State Highway 249, Suite 400, Houston TX 77070

3b. Phone No. (include area code)

281-374-3050

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 1980' FEL NE/4 of Sec 9, T22S, R34E

5. Lease Serial No.

NM-82799

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

14-08-0001-14277 (NMMN 70953X)

8. Well Name and No.

Gramma Ridge Federal, 8817 JV-P #1

9. API Well No.

30-025-30686

10. Field and Pool or Exploratory Area

Gramma Ridge, Morrow (Gas)

11. Country or Parish, State

Lea, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input checked="" type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The subject well was fracture treated with 1545 barrels of liquid propane and 47,323 pounds of 18/40 Versaprop proppant on August 9, 2011.

A stimulation summary and well schematic are attached.

ACCEPTED FOR RECORD

FEB 9 2013

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Darryl U. GEE

Title Director, Regulatory Affairs & Lease Mgmt.

Signature

Date 01/24/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petroleum Engineer

Title

Date

FEB 18 2013

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

Grama Ridge Federal, 8817 JV-P #1

Stimulation Summary

- Pump Time: 79 min
- Perforation Intervals/ Holes @ 0.39" & 60° Phasing:
12,828'-12,862' / 204 holes and 13,015'-13,057' / 252 holes
- P well (open): 1752 psi
- Breakdown Pressure: 3988 psi
- Avg Treating Pressure: 4408 psi
- Max Treating Pressure: 7163 psi
- Avg Slurry Rate: 20.2 bpm
- Max Slurry Rate: 28.3 bpm
- Avg Concentration: 2.75 lb/gal
- Max Concentration: 6.05 lb/gal
- Proppant Mass (18/40 Versaprop): 47,323 lbm
- Clean / Slurry Volume: 1545 bbls/ 1588 bbls
- Average HHP: 2182 HHP
- Post Job ISIP / 5 min leakoff Pressure: 5620 psi/ 3408 psi
- Post Job Gradient (assuming 100% N2 flush): 0.58 psi/ft
- Net Pressure (Mwell): ~1335 psi

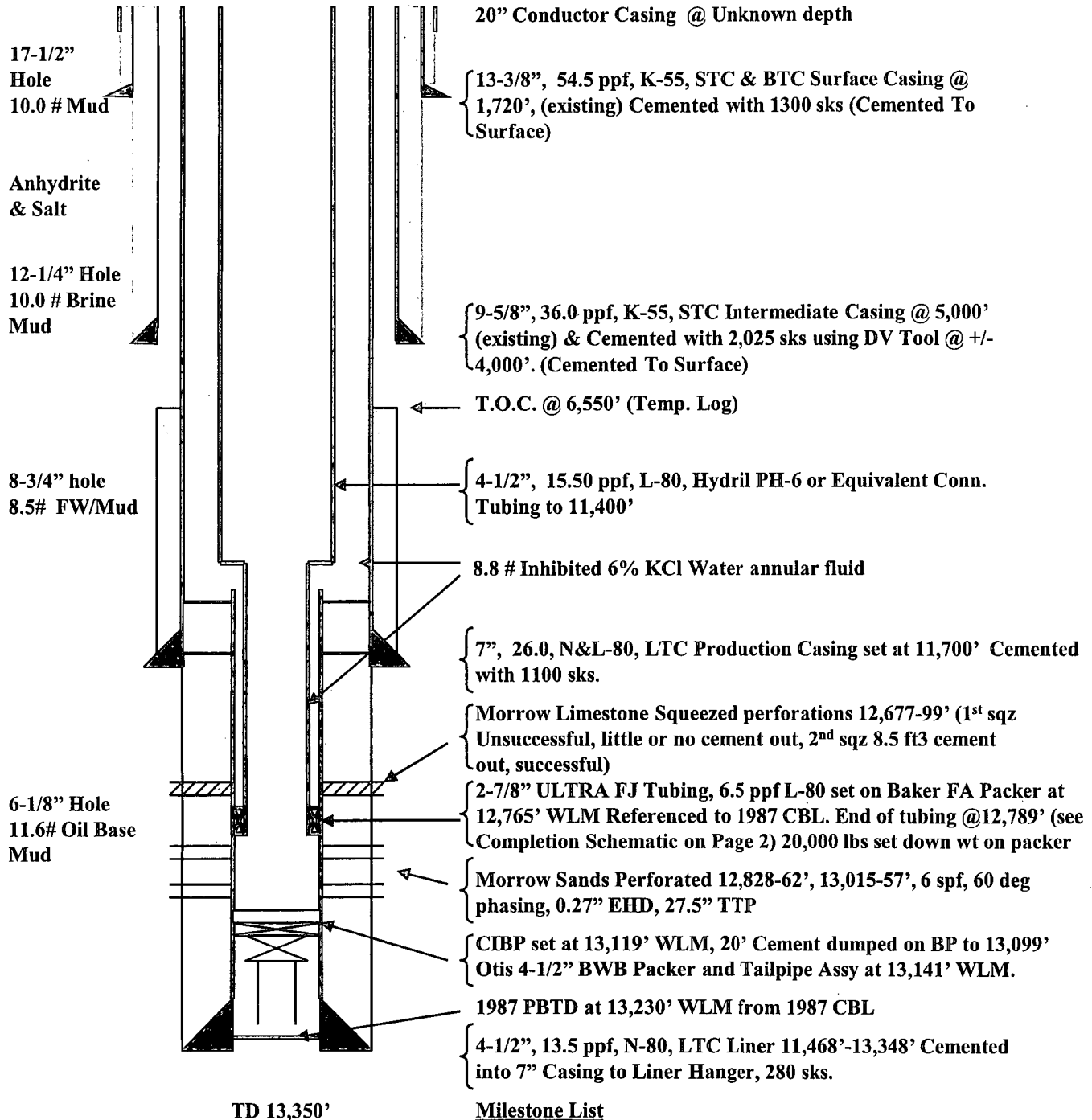
GRMU #7 (Grama Ridge Federal, 8817 JV-P, #1)

API # 30-025-30686

660' FNL, 1980' FEL Sec. 9, T22S, R34E

KB = 26'

Following Conversion to Natural Gas Storage Nov 2009



Milestone List

Spudded	10/14/89
Released Rig	12/6/89
Completed	12/27/89
Add Perfs	6/13/95 & 5/25/2000
Sqz & Recomplete	11/2009