Submit 3 Copies To Appropriate District State of New Mexico	Form C-103		
District I Energy, Minerals and Natural Resources	June 19, 2008		
1625 N. French Dr., Hobbs, NM 88240 District II	WELL API NO. 30-025-21336		
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION	5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410	STATE 🛛 FEE 🗌		
District IV 1220 S. St. Francis Dr., Santa Fe, NM	6. State Oil & Gas Lease No. E-9141		
87505			
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	<ol> <li>Lease Name or Unit Agreement Name GR Unit</li> </ol>		
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	8. Well Number		
1. Type of Well: Oil Well 🔲 Gas Well 🛛 Other: Storage	01		
2. Name of Operator	9. OGRID Number		
Enstor Grama Ridge Transportation and Storage, LLC 3. Address of Operator	234255 10. Pool name or Wildcat		
10375 Richmond Ave., Suite 1900, Houston, TX 77042	Grama Ridge, Morrow		
4. Well Location			
Unit Letter <u>E</u> <u>1980</u> feet from the <u>North</u> line and	660feet from theWestline		
Section 3 Township 228 Range 34E	NMPM Lea County		
11. Elevation (Show whether DR, RKB, RT, GR, etc., 3,664' GL			
5,004 GL			
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data		
	•		
NOTICE OF INTENTION TO: SUB			
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRI			
PULL OR ALTER CASING  MULTIPLE COMPL CASING/CEMENT			
OTHER: NOI Workover			
13. Describe proposed or completed operations. (Clearly state all pertinent details, and	l give pertinent dates, including estimated date		
of starting any proposed work). SEE RULE 1103. For Multiple Completions: At	tach wellbore diagram of proposed completion		
or recompletion.			
Proposed workover operation: Kill well; pull tubing & packer; run integrity log on cemente	d casing; run new tubing & new packer;		
reperforate; re-frac; cleanout wellbore; put back into service.			
Estimated date of starting proposed: April 3, 2023			
	opproval: notify		
QCD Hobbs	office 24 hours		
prior of running	MIT Test & Chart		
Spud Date: Rig Release Date:			
I hereby certify that the information above is true and complete to the best of my knowledge	e and belief.		
SIGNATURE Kun J. Uncell TITLE: Vice President, Subsurface	e & Wells DATE 03/29/2023		
	<u>e &amp; wells</u> _DATE <u>05/29/2025</u>		
Type or print name Kevin Ancell E-mail address: Kevin. Ancell @enstorin	nc.com PHONE: _281.374.3057		
For State Use Only			
APPROVED BY: Kerry Fortmen TITLE Compliance Officer A ATE 7/11/23			
Conditions of Approval	quer ()		

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# **Enstor Grama Ridge GRMU #1 - Workover Procedure**

### **Pre-Workover Operations Phase:**

- 1. Pre-workover operations should be no more then 1 week prior to mobilizing the workover rig
- 2. Move in and rig up (MIRU) three frac tanks and fill one with 500 bbls of 8.3 ppg treated & inhibited freshwater. (6% KCL-SC, 3 gals per 1,000 gals)
- 3. Attach pump-in sub to top of wellhead.
- 4. Rig up the pump truck and lines and pressure test lines to 1,500 psi for 5 mins.
- 5. Kill well with 30 bbls of HEC pill followed by 250 bbls of 8.3 ppf treated & inhibited fresh water, placing half of pill into the reservoir. Shut down and verify absence of surface pressure. <u>Note:</u> This displacement volume leaves the top of pill above the 5 <sup>1</sup>/<sub>2</sub>" x 3 <sup>1</sup>/<sub>2</sub>" crossover at 11,261 feet. All depths are reference to measured depth.
- 6. Leave well shut in overnight and observe any buildup of pressure the following morning.
- 7. Ensure well is dead before mobilizing wireline.
- 8. MIRU wireline unit and attach a retrievable bridge plug (RBP).
  - Wireline company and retrievable bridge plug Service Provider
- 9. Pressure test lubricator to  $\pm 2,500$  psi. (Greater than expected surface pressure.)
- 10. Make up (MU) GR/JB run. Run in the hole and set the RBP in the 5-1/2", 20.0 ppf tubing at  $\pm$  500 feet.
  - Setting depth to be determined based on reservoir pressure and rig timing
  - RBP should not be set more then a week prior to rig arriving
- 11. Fill tubing with treated & inhibited fresh water and pressure up to 1,000 psi and hold for 10 mins to ensure RBP is set and holding pressure.
- 12. Rig down (RD) the wireline unit and equipment.



Enstor Grama Ridge

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#### **Workover Operations Phase:**

- 13. MI workover rig package (i.e., pump, tank, pipe racks, etc.) and conduct HSE kickoff and orientations with crew. Perform site orientation with all new vendor personnel.
- 14. RU to the well using base beam.
  - <u>Note:</u> permanent anchors are available onsite but have not been pull tested in years.
  - Required equipment are base beam, fluid pump and tank, choke manifold, catwalk, and 3 4 sets of pipe racks.
- 15. Verify well is dead. Nipple down (ND) the flowlines and platform.
  - <u>Note:</u> This well has two (2) flowlines coming off each side of the flow cross. Recommend having a roustabout crew available to assist with rigging down of the flowline and platform around the wellhead
  - Hotbolt the wellhead after removing the surface lines
- 16. MIRU the BOP's nipple up/down crew/testers to location. ND the wellhead x-mas tree and nipple up 11" 5M dual ram BOP stack and single BOP blines.
  - Send off wellhead to be cleaned, inspected & repaired (if needed).
  - BOP stack requirements Triple with 3 ½ and 5 ½" rams with a set of blinds Include a service technician for the BOP stack Patterson, Knight, and Well Cat.
    - Confirm the rig floor capabilities BOP stack height.
- 17. Pressure test BOPs stack to 250 psi low for 5 minutes. Conduct 3,000 psi high pressure test for 10 minutes, record same.
- 18. Pick up the RBP retrieval tool and 2-7/8" tubing work string, then RIH and latch onto RBP and retrieve the RBP from wellbore.

*<u>Note:</u> Equalize pressures above and below RBP before releasing.* 

*Note: Monitor pressures and wellbore for fluid returns for at least 30 minutes prior to pulling out of the hole.* 

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Note: Address concerns about swabbing in the well or keeping the hole "full" while pulling the RBP.

- 19. Back out hold-down pins on 11" wellhead and make up a 5-1/2" 20 ppf, P-110, SLX landing joint into the 5-1/2" 20 ppf, P-110, SLX tubing hanger or spear assembly. Pull approximately 20K tension to unseat the 5-1/2" casing hanger and have the tubing string at neutral weight. *Note: Approximate tubing string weight is 240K (dry hanging weight).*
- 20. Following Baker Hughes procedure for releasing the Model L-10 On-Off Tool from the Hornet Packer. Release the L-10 On-Off Tool from the Hornet Packer.
  - Baker procedure is attached to this document
- 21. Establish circulation *(if unable to establish traditional circulation, line up the manifold to reverse circulate)* and circulate at quickest rate possible without causing losses (± 6 bpm) to clean off any potential debris on top of the Hornet Packer.
- 22. Latch back onto the Hornet Packer with the L-10 On-Off tool. Then following Baker Hughes procedure, release the Hornet Packer.
  - Set down a minimum of 500 lbs then rotate 1/4 turn to the right and pick up at the same time.
  - This will disengage the lower J and release the packer.
  - The bonded seal will unload and equalize the upper and lower annulus.
  - Then the Upper Slips will retrieve using between 15,000 25,000 lbs of tension.
  - Packing Element will be stretched out and the Lower Cone will disengage the Lower Slips.
  - Tool can be reset or retrieved at this point.
- 23. Pull out of hole and lay down the 5-1/2" tubing.
- 24. Move in and rig up wireline unit and run CBL & Casing Inspection Logs (i.e., magnetic flux or equivalent and multi-arm caliper surveys) through the 7-5/8" casing and 5-1/2" liner.
  - CBL results will on be interpreted below the fluid level



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- 25. MU and run the assembly into the wellbore on wireline with pressure control equipment and set the packer at a minimum depth of 12,726' RKB (*Minimum depth determined by the Injection Permit, 100' above the top perforation at 12,826'*). Perform a slack-off and pull test to ensure packer is seated correctly. Pressure-test the annulus to 1,000 psi to verify packer is set and release from same.
- 26. Rig down and move out wireline
- 27. MIRU casing handling tools, helium testing, and torque turn equipment. MIRU the pickup/laydown machine if already not in place.
- 28. MU and run the string of 5-1/2", 20 ppf, P-110 X 3-1/2" 9.2 ppf L-80 Ultra FJ. Internally connection-test each connection to  $\pm 3,500$  psi, and record the torque required to make up tubing string utilizing the third-party torque turn equipment.

<u>Note:</u> Run enough 5-1/2" casing to place the crossover to 3-1/2" at approximately 50' - 75' above the top of the 5-1/2" liner (TOL @ 11,474' MD). 5-1/2" pup joints may be required to space and land the 5-1/2" hanger in the wellhead.

- 29. Land the seal & latch assembly in the 5-1/2" production packer (type TBD) and take space out measurements. Make up space out pups as need.
- 30. Spot approximately 220 bbls <u>(Note:</u> Estimating 5-1/2" X 3-1/2" x-over @ 11,400', and packer depth of 12,750') of inhibited packer fluid in the tubing and casing annulus.
  - Final volumes to be determined and calculated following the setting of the packer
- 31. Engage the anchor seal assembly in the production packer (type TBD) and land the 5-1/2" mandrel hanger in the wellhead.
- 32. Perform a Mechanical Integrity Test (MIT) on the annulus of the injection/withdrawal string by pressure-testing the tubing-casing annulus to  $\pm 550$  psi for 30 minutes on recorded chart.
- 33. RD well servicing unit and ancillary equipment and demobilize from the site.



Enstor Grama Ridge

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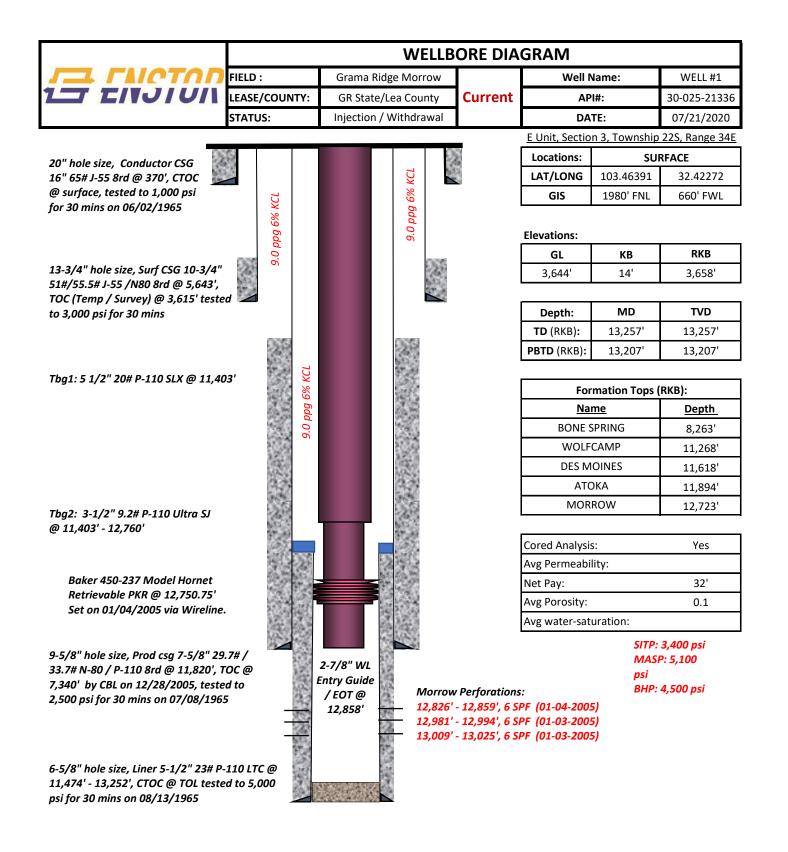
#### Perforation & Frac Operations Phase:

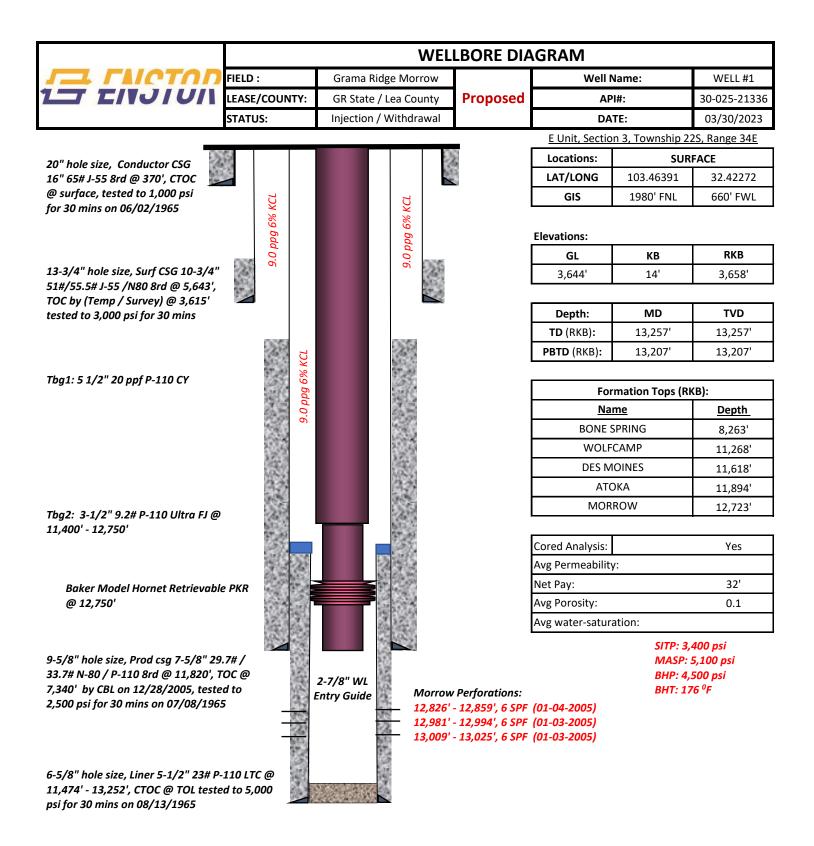
- 34. MIRU wireline unit.
- 35. MU and run Deep penetrating guns and perforate the following:
  - Final gun size to be determined following the packer selection
  - 12,826' 12,859' (33'), @ 6 spf (Re-perf Existing)
  - 12,912' 12,920' (8'), @ ±12 spf (New Perfs)
  - 12,981' 12,994' (13'), @ 6 spf (Re-perf Existing)
  - 13,009' 13,025' (16'), @ 6 spf (Re-perf Existing)
- 36. Pressure test tree and casing to 3,000 psi on recorded chart.
- 37. MIRU frac crew and perform the frac:

### **Coiled Tubing Operations Phase:**

- 38. MIRU coiled tubing, nitrogen pumping and flow-back equipment. RU to take flow through production separator with flare stack and route liquids downstream to open-top flowback tank.
- 39. Pull test the coil connector.
- 40. Make up the BOPs and injector head to the swab valve and test BOPs.
- 41. Make up a wash tool assembly.
- 42. Open the swab valve and trip in the hole. Check the pickup weight at 1,000' intervals or more frequently if necessary.
- 43. Pump fluid and nitrogen at a rate that allows for safe fluid and gas management at the surface. <u>Note:</u> Record all packer depths and depths of any ID restrictions while running in the hole. If solid fill is encountered, wash down in short increments and pump viscous sweeps as necessary to remove the solids from the wellbore.
- 44. Lower coiled tubing into perforated interval and work down to PBTD (13,207' MD) or deepest attainable depth while comingling fluid & nitrogen to clean out any fill.
- 45. Pull out of hole and close the wellhead valves.
- 46. RD CT and equipment and demobilize from site.

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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

Operator:	OGRID:
ENSTOR GRAMA RIDGE STORAGE AND TRANSPORTATION	234255
10375 Richmond Ave	Action Number:
Houston, TX 77042	201974
	Action Type:
	[C-103] NOI Workover (C-103G)

#### CONDITIONS

Created By	Condition	Condition Date
kfortner	Run PWOT MIT/BHT	7/11/2023

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Action 201974