

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

JUL 27 2011

FORM APPROVED
OMB No 1004-0137
Expires: March 31, 2007

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator **Range Operating New Mexico, LLC**

3a. Address
100 Throckmorton St., Ste. 1200, Fort Worth, TX 76102

3b. Phone No. (include area code)
817-869-4216

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

5. Lease Serial No.

NMLC 032952A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

See Attached List

9. API Well No.

See Attached List

10. Field and Pool, or Exploratory Area

Loving; Brushy Canyon East

11. County or Parish, State

Eddy

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input 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 checked="" type="checkbox"/> Other New disposal
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	method for
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	produced water.

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 recomplate 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

See attachments which include a well list and new disposal method information.

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

Paula Hale

Title **Sr. Reg. Sp.**

Signature

Date

07/18/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

Date

JUL 27 2011

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 USC Section 1001 and Title 43 USC 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)

Lease No.:	API No.	Well Name & No.	Legal Description	Pool Names	County
NMLC 032592A	30-025-37452	Trantula 3 Federal #001	Sec. 3-A-T25S-R37E	Justis, Tubb-Drinkard	Lea
NMLC 032592A	30-025-37516	Trantula 3 Federal #002	Sec. 3-H-T25S-R37E	Justis, Tubb-Drinkard	Lea
NMLC 032592A	30-025-38208	Trantula 3 Federal #003	Sec. e-I-T25S-R37E	Justis, Tubb-Drinkard	Lea
NMLC 032592A	30-025-38401	Truntula 3 Federal #004	Sec. 3-P-T25S-R37E	Justis, Tubb-Drinkard/Blinebry Oil & Gas	Lea

**Range Operating New Mexico, LLC
Tarantula 3 Lease
Changes in Method of Produced Water Disposal**

1. Name of formation(s) producing water on the lease:

Blinebry, Tubb and Drinkard
2. Amount of water produced from all formation in bbls/day:

The lease averages 280 bwpd.
3. Water Analysis included in Sundry packet.
4. How water is stored on lease:

3-500 bbl fiberglass tanks
5. How water is moved to the disposal facility:

3" poly flowline
6. Primary disposal facility:

Rice Operating Company (19174)
Justis SWD System, Well B-12, SWD
API #30-025-24761
Sec. 12, T25S, R37E
880' FNL & 2310' FEL
Lea County, New Mexico
7. Copy of Underground Injection Control Permit included in Sundry packet.



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardendale, TX 79758
 (432) 563-0727
 Fax: (432) 224-1038

Water Analysis Report

Customer: Range Resources Company Sample #: 5269
 Area: Loving Analysis ID #: 7418
 Lease: Tarantula
 Location: Battery 0
 Sample Point:

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	6/17/2011	Chloride:	70659.4	Sodium:	42220.0
Analysis Date:	6/22/2011	Bicarbonate:	536.0	Magnesium:	1429.4
Analyst:	Catalyst	Carbonate:		Calcium:	624.8
TDS (mg/l or g/m3):	116866.4	Sulfate:	400.0	Potassium:	851.6
Density (g/cm3):	1.081			Strontium:	145.2
				Barium:	0.0
Hydrogen Sulfide:	68			Iron:	0.0
Carbon Dioxide	240			Manganese:	0.000
Comments:		pH at time of sampling	7.5		
		pH at time of analysis			
		pH used in Calculation:	7.5		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	167200
				Resistivity (ohm meter):	.0598

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Calcite CaCO ₃			Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
Temp											
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.70	23.76	-1.53	0.00	-1.54	0.00	-0.40	0.00	0.00	0.00	
100	0.67	27.82	-1.59	0.00	-1.54	0.00	-0.42	0.00	0.00	0.00	
120	0.66	32.82	-1.64	0.00	-1.51	0.00	-0.43	0.00	0.00	0.00	
140	0.66	38.14	-1.68	0.00	-1.46	0.00	-0.44	0.00	0.00	0.00	
160	0.67	44.39	-1.71	0.00	-1.38	0.00	-0.43	0.00	0.00	0.00	
180	0.69	51.58	-1.74	0.00	-1.30	0.00	-0.42	0.00	0.00	0.00	
200	0.72	59.40	-1.76	0.00	-1.20	0.00	-0.41	0.00	0.00	0.00	
220	0.77	67.52	-1.78	0.00	-1.09	0.00	-0.39	0.00	0.00	0.00	

Order No. SWD-179

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set in a packer located at approximately 4200 feet.

IT IS FURTHER ORDERED:

That the operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

That the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

That water disposed of into this well will be by gravity flow, and in no event shall injection pressures exceed 850 pounds per square inch.

That the operator shall notify the supervisor of the Commission's Hobbs District Office before injection is commenced through said well.

That the operator shall immediately notify the supervisor of the Commission's Hobbs District Office of the failure of the tubing, casing, or packer in said well or the leakage of water from or around said well and shall take such steps as may be timely or necessary to correct such failure or leakage.

PROVIDED FURTHER:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection

of correlative rights; upon failure of applicant to comply with any requirement of this order after notice and hearing, the Commission may terminate the authority hereby granted in the interest of conservation. That applicant shall submit monthly reports of the disposal operation in accordance with Rule

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-2-

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