Form 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR RUBEALLOF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010
5. Lease Serial No.
NMNM 44846

DEI	PARIMENT OF THE	l E	expires: July 31, 2010			
BUR	REAU OF LAND MAN	5. Lease Serial No. NMNM14846				
	NOTICES AND REP	6. If Indian, Allottee	or Tribe Name			
		to drill or to re-enter a		•		
abandoned well.	Use Form 3160-3 (A	APD) for such proposa	als.			
SUBMI	IT IN TRIPLICATE - Othe		7. If Unit of CA/Agreement, Name and/or No.			
1. Type of Well		COMM # 103157				
Oil Well Gas V	Well Other	8. Well Name and No	8. Well Name and No. LOCO HILLS 4 FED 4			
			9 API Well No. 300153102400			
2. Name of Operator RKI EXPLORATION AND PRODUC	CTION, LLC		300153102400 10. Field and Pool or Exploratory Area			
3a. Address 210 PARK AVE., SUITE 900		3b. Phone No. (include area co 405-949-2221	GRAYBURG; STRA			
OKLAHOMA CITY, OK 73102	n M C D into		11. Country or Parish, State			
4. Location of Well (Footage, Sec., T.,		•	EDDY, NEW MEXICO			
990 FNL/990 FEL (NE/4 NE/4) SEC.4-T18S-R						
12. CHEC	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATUR	RE OF NOTICE, REPORT OR OTH	IER DATA		
TYPE OF SUBMISSION		T	YPE OF ACTION			
Notice of Intent	Acidize	Dеерен	Production (Start/Resume)	Water Shut-Off		
1 Nonce of finent	Alter Casing	Fracture Treat	Reclamation	Well Integrity		
✓ Subsequent Report	Casing Repair	New Construction	Recomplete	Other SITE FACILITY		
· · · · · · · · · · · · · · · · · · ·	Change Plans	Plug and Abandon	Temporarily Abandon	DIAGRAM		
Final Abandonment Notice	Convert to Injection	Plug Back	✓ Water Disposal			
determined that the site is ready for RKI EXPLORATION AND PRODUC OF LAND MANAGEMENT, PER W	CTION SUBMITS THE FO		IT THE REQUEST OF THE CAR	LSBAD, NEW MEXICO, BUREAU		
SEE THESE ATTACHED DOCUM			400	dela		
WATER PRODUCTION AND DISP WATER ANALYSIS	•		AW '	AD 11/5/14		
DISPOSAL WELL PERMIT	NM c	)rı	9014440 Chr.	AND CONTROL OF THE CONTROL		
SITE FACILITY DIAGRAM	7	PIL CONSERVATION ARTESIA DISTRICT NOV 0 4 2000	it z v juliju	Here was the		
•		NO.				
		NOV 04 2014	SEE CONDITI	SEE ATTACHED FOR CONDITIONS OF APPROVAL		
		RECEIVED	<b>!</b>	MATHOVAL		
		-CEIVED				
	•			e e		
14. I hereby certify that the foregoing is Name (Printed/Typed)	true and correct.			•		
JODY NOERDLINGER	٨	Title REGUL	LATORY ANALYST			
Signature Ooly	Nordlin	Date 10/14/2	2014	PPROVED		
	THIS SPACE	FOR FEDERAL OR S	TATE OFFICE USE			
Approved by	1110 07 7101			OCT 24 2014		
Approved by		ļ	SAO I	xho		
Conditions of approval, if any, are attache	ed. Approval of this notice do	Title	(JU)	Date————————————————————————————————————		
that the applicant holds legal or equitable	title to those rights in the subje		A S	SUPERVISOR-EPS		
entitle the applicant to conduct operations						

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)

#### GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

### SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

#### NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

### WATER PRODUCTION & DISPOSAL INFORMATION

In order to process your disposal request, the following information must be completed:

LEASE NAME: LOCO HILLS 4 FEDERAL

- 1. Name of formations producing water on the lease. STRAWN
- 2. Amount of water produced from all formations in barrels per day. AVERAGE .24 BPD.
- 3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.) ATTACHED
- 4. How water is stored on lease. In 210 BBL TANK
- 5. How water is moved to the disposal facility TRUCKED.
- 6. Identify the Disposal Facility by:
  - A. Facility Operators name. TRINITY ENVIRONMENTAL SERVICES
  - B. Name of facility or well name and number. GREEN A FEDERAL 10
  - C. Type of facility or well (WDW) (WIW) etc. WDW
  - D. Location by 1/4 1/4 NE/SE, Section 29 Township17S Range 29E
- 7. Attach a copy of the State issued permit for the Disposal Facility.

  ATTACHED

Submit to this office, **620 EAST GREENE ST, CARLSBAD NM, 88220**, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)

### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	WadeCo S	pecialti	es, LLC				
Well Number: Lease: Location: Date Run:	Loco Hills 4 Fed #4 I <del>nj. Well-</del> RKI WC25961 10/8/2014				Sample Temp: Date Sampled: Sampled by: Employee #:	82.6 9/29/2014 Wade Havens	
Lab Ref #: K=194.67 Mg/L	9			Analyzed by:	GR	GR .	
			Dissolved (	Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfi	• •				20.00	16.00	1.25
Carbon Dioxide	` '				69.00	22.00	3.14
Dissolved Oxy	gen (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca++	<b>+</b> )	•		10,910.28	20.10	542.80
Magnesium	(Mg+-	+)		•	1,010.16	12.20	82.80
Sodium	(Na+)				23,971.52	23.00	1,042.24
Barium	(Ba+⊣	+) ·	<b>NOT ANAL</b>	.YZED		• ,	
Manganese	(Mn+)				2.87	27.50	.10
Strontium	(Sr++	-)	NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=	•	•		.00	30.00	.00
BiCarbonate	(HCO3				232.18	61.10	3.80
Sulfate	(SO4=	=)			.00	48.80	.00
Chloride	(Cl-)				59,165.01	35.50	1,666.62
Total Iron	(Fe)				104.38	18.60	5.61
Total Dissolved				95,485.40			
Total Hardness as CaCO3					31,417.36		
Conductivity MICROMHOS/CM		М			137,100		
pH .	2.650			Specific	Gravity 60/60	) F.	1.066
CaSO4 Solubility @ 80 F.		19.6	57MEq/L,	CaSO4 s	cale is unlikely		•
CaCO3 Scale Ind	ex						
70.0	-3.634	100.0	-3.334	130.0	-2.74	4	
80.0	-3.544	110.0	-3.064	140.0	-2.74	4	
. 90.0	-3.334	120.0	-3.064	150.0	-2.40	4	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
BETTY RIVERA
Cabinet Secretary

AUG 2002
RECEIVED
OCD - ARTESIA

Lori Wrotenbery
Director
Oil Conservation Division

ADMINISTRATIVE ORDER SWD-843

APPLICATION OF SOUTHWEST ROYALTIES, INC. FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

## ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Southwest Royalties, Inc. made application to the New Mexico Oil Conservation Division on July 18, 2002, for permission to re-enter and recomplete for produced water disposal its Green Federal "A" Well No. 10 (API No. 30-015-21748) located 1980 feet from the West line and 1980 feet from the South line (Unit F) of Section 29, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

### THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

### IT IS THEREFORE ORDERED THAT:

Southwest Royalties, Inc. is hereby authorized to re-enter and re-complete its Green Federal "A" Well No. 10 (API No. 30-015-21748) located 1980 feet from the West line and 1980 feet from the South line (Unit F) of Section 29, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the injection of produced water for commercial disposal purposes into the Strawn formation from a depth of 9220 feet to 9600 feet through 2 7/8 inch plastic-lined tubing set in a packer located at approximately 9150 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.

As preparation for injection, existing San Andres perforations shall be squeezed, the well bore drilled out, and new, inspected 5 ½" casing run to approximately 9800 feet and cement circulated to surface. This casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

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.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 1844 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia District Office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia District Office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

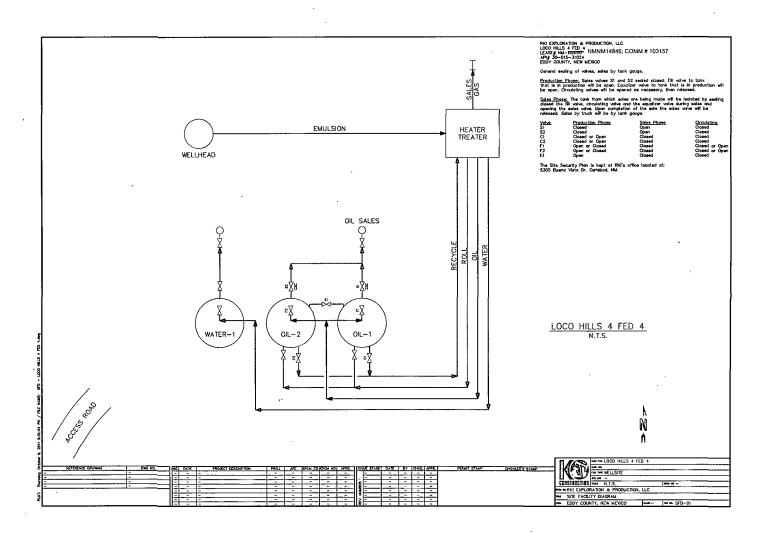
Administrative Order SWD-843 Southwest Royalties, Inc. August 20, 2002 Page 3

Approved at Santa Fe, New Mexico, on this 20th day of August 2002.

LORI WROTENBERY, Director

LW/wvj

cc: Oil Conservation Division – Artesia Bureau of Land Management – Carlsbad



Accepted for Record Purposes.

Approval Subject to Onsite Inspection.

Date: 10/24/19

### BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

### Disposal of Produced Water From Federal Wells Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- 1. This agency shall be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Order No. 7.
- 3. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
- 6. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
- 7. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.
- 8. Disposal at any other site will require prior approval.
- 9. Subject to like approval by NMOCD.

7/10/14