1001 Noble Energy Way Houston, TX 77070

> Tel: 281.872.3100 nblenergy.com



southwest royalties, inc. a subsidiary of noble energy, inc.

November 28, 2017

Sent via email to Olivia. Yu@state.nm.us

NMOCD Olivia Yu, Environmental Specialist 1625 N. French Drive Hobbs, NM 88240

Dear Ms. Yu,

Southwest Royalties, Inc. respectfully submits the enclosed C-141 (Release Notification and Corrective Action).

Should you have any questions or concerns, please contact me at 281-874-6072 or jonathan.pennington@nblenergy.com.

Sincerely,

Jonathan Pennington

Environmental Coordinator

Jonathan.Pennington@nblenergy.com

:Enclosure

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Revised April 3, 2017

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action												
						OPERATOR   Initial Report   Final Report						
Name of Company Southwest Royalties, Inc.							Contact Jonathan Pennington					
							Telephone No. 281-874-6072 Facility Type SWD Tank Battery					
Surface Owner State Mineral Owner							API No.					
LOCATION OF RELEASE												
Unit Letter	Section	Township	Range	Feet from the	150 000 000 000 000 000	North/South Line Feet from the		East/West Line		County		
F	21	9S	33E	1520	ĺ	North 1460 West		Lea				
I -11-1-22 52222												
<b>Latitude</b> 33.52209 <b>Longitude</b> -103.57667 NAD83												
NATURE OF RELEASE												
Type of Release Produced Water Source of Release Triplex Pump discharge line							Volume of Release 200 bbl Volume Recovere  Date and Hour of Occurrence Date and Hour of					
Source of Release. Triplex I unip discharge fine							Date and Hour of Occurrence Date and Hour of Discovery 1/23/17 09:30 AM 11/23/17 09:30 AM					
Was Immediate Notice Given?							If YES, To Whom? Maxey Brown, NMOCD					
☐ Yes ☐ No ☐ Not Required												
By Whom? Jonathan Pennington Was a Watercourse Reached?							Date and Hour 11/23/17 4:30 PM  If YES, Volume Impacting the Watercourse.					
☐ Yes ☐ No							N/A					
If a Watercourse was Impacted, Describe Fully.*												
N/A  RECEIVED												
IV/A						By	Olivia Yu a	at 8:5	56 am,	Nov 29, 20	017	
Describe Cause of Problem and Remedial Action Taken.*  The injection pump discharge line corroded causing the release of approximately 200 bbls. A vacuum truck was called to the site and recovered approximately 200 bbls of fluid. The corroded line was replaced on 11/24/17.												
Describe Area Affected and Cleanup Action Taken.*  All fluid was contained within the earthen secondary containment berm, except 3 barrels which were released outside of containment. Southwest Royalties, Inc. will evaluate the site according to NMOCD guidelines and will present a characterization report to NMOCD prior to any remediation work.												
regulations al public health should their o	I operators or the envir operations hament. In a	are required to ronment. The ave failed to a ddition, NMC	o report an acceptance adequately OCD accep	nd/or file certain re ce of a C-141 report investigate and re	elease nort by the emediate	otifications a e NMOCD n e contaminat	and perform correct narked as "Final Ri ion that pose a thre	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which may e eases which may e eve the operator o c, surface water, hu compliance with an	ndanger f liability ıman health	
Signature:	mill	~R	- 2		OIL CONSERVATION DIVISION							
Printed Name	Jonathan	Pennington	/		Approved by Environmental Specialist:							
Title: Enviro	nmental Co	ordinator			Approval Date: 11/29/2017 Expiration Date:							
E-mail Addre	ss: Jonatha	nn.Pennington	@nblenerg	gy.com		Conditions of	f Approval:			Au-1-1-1-1	1	
D . 11/00/6	2017		DI	201 074 6072		see attached directive						

\* Attach Additional Sheets If Necessary

Date: 11/28/2017

1RP-4884

Phone: 281-874-6072

fOY1701239067

nOY1733332623

pOY1733332612

## Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_11/28/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4884\_\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_12/29/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

## Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us