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

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.

Form C-141 Revised August 8, 2011

Release Notification and Corrective Action

	OPERATOR Initial Report Final Report												
							Contact Maren Coligan						
Address 130	mpany K		Telephone No. 713-651-4825										
	01 McKiii	ney Sueet, S	1										
77010 Facility Name Atha SWD							Facility Type SWD						
							Dasco & McCasland API No. 30-025-08816						
Surface Own	Surface Owner Dasco & McCasland Mineral Owner Dasco & McCasland LOCATION OF RELEASE												
								F ./X	7 T	Country			
Unit Letter	Section	Township	Range	Feet from the	122	South Line Feet from the 990'		East/West Line West Line		County Lea			
C	6	22S	36E	660'	North I	Line	990	West	Jiic				
Letitude 32° 25' 47 8" N Longitude 130° 18' 36.9' W 32.4263039,-103.3093185													
Latitude_52 _23 _17.6 A 23 _ 25													
NATURE OF RELEASE													
Type of Release: Produced Water							Volume of Release 5-10 bbl. Volume Recovered: 0 b						
Source of Release: Flowline to the injection wells							Date and Hour of Occurrence Date and Hour of Discover 01/15/2017 - 9:00am 01/15/2017 - 9:00am						
									01/13/201	7 - 7.00dm			
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required							If YES, To Whom? NA						
							Date and Hour: NA						
By Whom? NA Was a Watercourse Reached?							If YES, Volume Impacting the Watercourse.						
☐ Yes ☒ No							NA						
If a Watercourse was Impacted, Describe Fully.*													
NA By Olivia Yu at 3:51 pm, Jan 18, 2017													
Describe Cause of Problem and Remedial Action Taken.*													
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
down durin	down during the job. The wells and pump were immediately shut in. Disposal supervisor estimated a loss of approximately 5 to 100 BBLS. A crew and equipment was called out to expose the line and start repairs.												
A crew and	l equipme	nt was called	out to ex	spose the line an	a start i	epairs.							
Describe Ar	ea Affected	and Cleanup	Action Ta	ken.*								.,	
Spill area is	northwest of	of the location	. Equipm	ent has been dispa	atch to lo	cation and w	aiting on one call	clearan	ce to start re	emoving con	ntaminated s	soils.	
I hereby cert	tify that the	information	iven abov	e is true and com	plete to t	he best of m	y knowledge and	understa	nd that purs	suant to NM	IOCD rules	and	
							narked as "Final I						
should their	operations	have failed to	adequate	y investigate and	remediai	loes not relie	eve the operator of	f respons	sibility for c	ompliance	with any oth	ner	
or the enviro	should their operations have failed to adequately investigate and remediate contamination that pose a trick to grow the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
reactur, state	o, or re-un-						OIL CON	ISER	IATION	DIVISION	<u>ON</u>		
	Ω		Approved by Environmental Specialist:										
Signature:	11/0												
Printed Nan	ne: Maren (Coligan		Approved by Environmental Specialism									
				Approval Date: 01/18/2017 Expiration Date:									
Title: Envir	onmental D	irector		Approvai	aic.		2.ipiration						
E-mail Add	ress: mcoli	gan@keyener		Conditions of Approval:						1			
see attached directive											V		
Date: 01/18	Date: 01/18/2017 Phone: 713-651-4825												

* Attach Additional Sheets If Necessary

RP4571

nOY1701857210

pOY1701857403

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _01/18/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4571_ 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 _02/18/2017_. 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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