

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

RECEIVED
AUG 19 2010
HOBBSOCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Samson Resources Company	Contact: Autumn Long	
Address: Two West Second Street	Telephone No. (918) 591-1364	
Facility Name: Minis 2R Fed #1	Facility Type: Injection Well (W)	
Surface Owner	Mineral Owner	Lease No. 6202296

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	2	T21S	R32E	360	South	660	East	Lea

Latitude 35.50123 Longitude -103.63839

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 45 Barrels	Volume Recovered: 35 Barrels
Source of Release: Water Valve Load Line	Date and Hour of Occurrence: 6/21/2010; Unknown	Date and Hour of Discovery: 6/21/2010; 11:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoff Leking – District 1 (505) 393-6161 (6/21/2010 at 4:00 p.m.) Terry Gregston – BLM Carlsbad Office (575) 234-5972 (6/21/2010 at 4:05 p.m.) Trishia Bad Bear – BLM Hobbs Office (575) 393-3612 (6/22/2010 via email report)	
By Whom? Autumn Long	Date and Hour: 6/21/2010 4:00 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Contract water hauler left water valve handle on load line and did not close valve at tank; cow rubbed valve open; releasing 45 barrels of produced water; all fluid remained on location. Initial remedial action included approximately 35 barrels of fluid were vacuumed-up; backhoe picked-up impacted soil down to caliche, and properly disposed of impacted soil.		
Describe Area Affected and Cleanup Action Taken.* All fluids remained on location ; Length: 140' Width: 4'8' Depth: 5' <ul style="list-style-type: none">On June 24, 2010 Arc Environmental, LLC collected field samples from five locations (Area 1 through Area 5). The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico and analyzed for chloride.The week of June 28, 2010 Key Energy continued excavation to approximately 3 to 4 feet bgs. The backhoe failed and was serviced on June 30, 2010.On July 2, 2010 Arc Environmental, LLC collected field samples from five locations (Area 1 through Area 5).On July 6, 2010 Larson & Associates drilled two soil borings, in Area 1 and Area 4. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico.On July 21, 2010 Samson requested closure from the BLM and OCD by excavating areas SB-1 and SB-2 to a depth of 5 feet and lining with a 20 mil thickness poly liner.On July 21, 2010 Samson received closure approval from the BLM and OCD.On July 22, 2010 areas SB-1 and SB-2 were excavated to a depth of 5 feet.On July 23, 2010 excavated areas SB-1 and SB-2 were lined with a 20 mil thickness poly liner and seam welded. The excavated area was backfilled with clean soil and caliche.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or 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.

Signature: <i>Autumn M. Long</i>		<u>OIL CONSERVATION DIVISION</u>	
		ENV. ENGR : Approved by District Supervisor: <i>Jeffrey Selving</i>	
Printed Name: Autumn Long		Approval Date: <i>08/23/2010</i>	Expiration Date: <i>-</i>
Title: Environmental Specialist		Conditions of Approval: Attached <input type="checkbox"/> <i>IRP-10-7-2574</i>	
E-mail Address: autumnl@samson.com			
Date: August 16, 2010 Phone: (918) 591-1364			

* Attach Additional Sheets If Necessary



Samson Plaza
Two West Second Street
Tulsa, Oklahoma 74103-3103
USA
918/591-1791

August 16, 2010

State of New Mexico Energy Minerals and Natural Resources
Oil Conservation Division – District 1
Attn: Geoffrey Leking
1625 N. French Dr.
Hobbs, NM 88240

RECEIVED
AUG 19 2010
HOBBSOCD

Re: Remediation & Sampling Plan – Closure Report
Minis 2R Fed #1
Lea County, New Mexico

Summary

This report is submitted to the New Mexico Bureau of Land Management and New Mexico Oil Conservation Division (OCD) to report remediation of a produced water spill that occurred at the Minis 2R Fed #1 location in Section 2, Township 21 South and Range 32 East in Lea County, New Mexico.

The spill occurred on 6/21/10 after a water hauler left a handle on the load line and did not close the valve at the water tank. Approximately 45 bbls of produced water was released. Samson recovered 35 bbls that was returned to the tank battery. Approximately 10 bbls of produced water was lost to the surface. All fluid remained on location. The initial C-141 was submitted to NMOCD District 1 and BLM-Carlsbad on 6/23/10. The C-141 was submitted to BLM-Hobbs via email on 6/24/10.

- On June 21, 2010 Banta Oilfield Services, Inc. (Banta) excavated impacted soils from the area. At approximately 2 to 3 below ground surface (bgs) caliche was encountered.
- On June 24, 2010 Arc Environmental, LLC collected field samples from five locations (Area 1 through Area 5). The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico and analyzed for chloride.
- The week of June 28, 2010 Key Energy continued excavation to approximately 3 to 4 feet bgs. The backhoe failed and was serviced on June 30, 2010.
- On July 2, 2010 Arc Environmental, LLC collected field samples from five locations (Area 1 through Area 5).
- On July 6, 2010 Larson & Associates drilled two soil borings, in Area 1 and Area 4. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico.
- On July 21, 2010 Samson requested closure from the BLM and OCD by excavating areas SB-1 and SB-2 to a depth of 5 feet and lining with a 20 mil thickness poly liner.
- On July 21, 2010 Samson received closure approval from the BLM and OCD.
- On July 22, 2010 areas SB-1 and SB-2 were excavated to a depth of 5 feet.
- On July 23, 2010 excavated areas SB-1 and SB-2 were lined with a 20 mil thickness poly liner and seam welded. The excavated area was backfilled with clean soil and caliche.

Site Assessment

- Groundwater occurs at about 150 feet below ground surface based on records with the New Mexico Environmental Department;
- The release is not within a wellhead protection area, and no private, domestic fresh-water well or springs are within 500 horizontal feet of release;
- The release is not within vicinity of surface waters; and
- No observable or free petroleum hydrocarbons or staining is present.

Soil Remediation

- On June 21, 2010 Samson contracted Banta Oilfield Services, Inc. (Banta) to excavate impacted soils from the area. At approximately 3 to 4 below ground surface (bgs), caliche was encountered.
- On June 24, 2010 Samson contracted Arc Environmental, LLC to collect field samples from 3 to 4 feet bgs from five locations (Area 1 through Area 5). Samples were also collected for background, the excavated stock pile and the clean backfill. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico and analyzed for chloride. See attached sample results.
- Key Energy continued excavation the week of June 28, 2010 to approximately 4 to 5 feet bgs. Caliche prevented further excavation with the backhoe and the equipment was serviced on June 30, 2010.
- On July 2, 2010 Arc Environmental, LLC collected five field samples (Area 1 through Area 5) from the bottom of the excavation. The samples were analyzed onsite for chloride. See attached sample results.
- On July 6, 2010 Samson contracted Larson & Associates, Inc. (LAI) to drill two 15 foot vertical soil borings, one each in Area 1 and Area 4. The soil borings were witnessed by Samson representative Floyd Steed, OCD representative Geoffrey Leking and BLM representative Trishia Bad Bear. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico and analyzed for total petroleum hydrocarbons (TPH) near the surface and chloride for the extent of the boring to determine vertical extent of chloride. See attached sample results.
- On July 21, 2010 Samson submitted a request for closure to the BLM and OCD based on the following procedure. The open excavation areas SB-1 and SB-2 were excavated to a depth of 5 feet and lined with a 20 mil thickness poly liner and seam welded. The excavation area was backfilled with clean soil and caliche. A notice of 24 hours was sent to BLM and OCD to witness the liner installation and backfill.
- On July 21, 2010 the BLM and OCD approved the closure request.
- On July 22, 2010 soils were excavated per the closure request.
- On July 23, 2010 the excavated area was lined per the closure request. BLM representative Trishia Bad Bear was present to witness the liner installation.

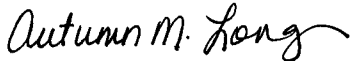
Closure Request

The vertical extent of chloride concentration has been determined. The limited vertical extent and level of chloride concentrations, location of the produced water release and the depth to groundwater indicates little risk associated with the chlorides remaining in the impacted soils.

Soils were excavated in Areas 1 through Areas 5. Soils were further excavated in Area 1 (SB-1) and Area 4 (SB-2) to a depth of 5 feet. A 20 mill thickness poly liner was installed and seam welded in Area 1 and Area 4 to prevent any potential leaching of chlorides. OCD and BLM was given 24 hours notice to witness the liner installation which occurred on July 23, 2010. The excavated areas were backfilled with clean soil and caliche. A final C-141 is submitted as an attachment to this report.

If you have questions, or require further information, please do not hesitate to contact me.

Sincerely,
Samson Resources



Autumn McClendon-Long
Environmental Specialist

Cc: Trishia Bad Bear – BLM Hobbs Field Station
Gerry Petree – Superintendent
Bob Fisher – Key Energy