Submit 1 Copy To Appropriate District Office	State of New Mexico		Form C-103
<u>District I</u> – (575) 393-6161 1625 N, French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Re	sources	Revised July 18, 2013 WELL API NO.
<u>District II</u> = (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVI	ISION	30-045-28653
<u>District III</u> - (505) 334-6178	1220 South St. Francis D	r.	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505		STATE FEE S 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			o. State on & Gas Lease No.
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUG BAC CATION FOR PERMIT" (FORM C-101) FOR SUCI	K TO A	7. Lease Name or Unit Agreement Name Sunco Disposal
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other SWD Class I		8. Well Number #1
2. Name of Operator			9. OGRID Number
Agua Moss, LLC 3. Address of Operator			247130 10. Pool name or Wildeat
PO Box 600 Farmington, NM 874	99		SWD-MV
4. Well Location			And the last of the second second
Unit LetterE_:_	AMILE 7 (52)		
Section 2	Township 29N Range 12W	NMPN	
	11. Elevation (Show whether DR, RKB, 15859' GL	RT, GR, etc.	
	J639 GL		
12. Check	Appropriate Box to Indicate Nature	of Notice.	Report or Other Data
	ITENTION TO:		SEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON		EDIAL WOR	
TEMPORARILY ABANDON PULL OR ALTER CASING			ILLING OPNS. PAND A
DOWNHOLE COMMINGLE	MOETIFEE COMPL [] CASH	NG/CEMEN	1 108
CLOSED-LOOP SYSTEM			
OTHER:	Perform FOT 🗵 OTHE		
Describe proposed or comp	leted operations. (Clearly state all pertinen	it details, an	d give pertinent dates, including estimated date
of starting any proposed we proposed completion or rec	ork). SEE RULE 19.15.7.14 NMAC. For the	Multiple Co	mpletions: Attach wellbore diagram of
inohosed completion of rec	ompletton.		
Agua Moss, LLC would like to cond	duct the required Fall Off Test as outlined in	n the propos	ed/attached documents on 6/26/2017.
	and a reason from		
Spud Date:	PLANTE DE LA PROPERTICIONE		HANNI III III SAIREE
Spud Date:	Rig Release Date:	$M = -i \times i$	
	The second secon	I le some	
I hereby certify that the information	above is true and complete to the best of m	v knowledge	e and belief.
111-1			
SIGNATURE / MMIN/	MANNIN PROPERTY		
SIGNATORALIAND LANDING	TITLE Regulatory C	Lomphance !	Specialist_DATE6/27/2017
Type or print namePhilana Thom For State Use Only	pson E mail address:pthompson	@merrion.b	z PHONE:505-324-5336
	01	111	
APPROVED BY: Conditions of Approval (if any):	TITLE ENVIRONMEN	etal E	19 inear DATE 6/27/2017

Agua Moss, LLC

Wellbore Schematic

Sunco No. 1, SWD Current Wellbore Configuration

Location: 1595' fnl & 1005' 'fwl Elevation: 5,859' GL Sec 2, T29N, R12W 5,872' RKB San Juan Co, New Mexico By: J. Ryan Davis July 12th, 2013 Top of Cmt @ Surface Bit Size - 12 1/4" 8 5/8" 24# K55 Surface Csg @ 209' KB w/ 150sx; circ to surf DV tool @ 2244' KB. 2 7/8", 6.5#/ft EUE Internally Plastic Coated Tubing to 4282' KB W/ Arrow XL-W retrievable seal bore @4282' KB F Profile nipple, (2.25" ID). Mesaverde - 4046'

TD @ 4760'KB

8 B

PBTD @ 4706'KB

5.50" 15.5# K55 Csg @ 4750'

(Acidized w/ 2000 gal 15% HCL on 9/1993 , Frac w/ 100,000# 20/40)

Stage 1: 230 sx Stage 2: 515 sx Circ 25 sx to surf

Pt. Lookout Perfs: 4350' - 4460' 2 spf

Fall Off Test Procedure:

Prepare Well for Fall Off Test

- Arrange for adequate injection fluid storage
- Accumulate 3000 bbls of produced water
- Perform MIT
- 4. MIRU wireline
- 5. RIH w/ Gauge ring to SN
- 6. POOH w/ Gauge ring and PU impression block (or something to run thru SN)
- 7. RIH tag and record fill depth
- 8. If no restrictions exist and fill is below the perfs continue on to FOT. Otherwise remediate problem or adjust FOT procedure before continuing.

Conduct Fall Off Test

- POOH pick up pressure gauges
- 10. RIH and hang gauges off @ 4405' KB
- 11. Begin injection, (125 bph) 3000 bwpd, Record time
- 12. Inject for 50 hrs, total of 6250 bbls. Record start and stop time
 - a. Ensure injection pressures have stabilized before proceeding
- 13. S/D injection pump and close valve @ wellhead, Record time
 - Once surface pressure stabilizes record start time of fall off
- 14. Record pressure data for 164 hrs, Record start and stop time
- 15. POOH making gradient stops @ 4000', 3000', 2000', 1000' and surface
- 16. Secure well and bleed pressure off lubricator
- 17. R/D wireline
- 18. Put well back into service for normal operation.

AGUA Moss, LLC

TEST PLAN FOR PRESSURE FALL-OFF TEST (FOT)

		Wel	I Information	
Well:	Sunco	Disposal 1	Field:	Mesaverde SWD
Location:		&1005' fwl	Elevations:	5859' GL 5872' RKB
	Co. New Mexico	Depths:	4706' KB PBTD 4760' KB TD	
VLBXV			Engineer:	J. Ryan Davis (505.324.5335)
API:	30-045-28	3653	Date:	June 27, 2017
Surface Casing:	8- 5/8" @ 209' KB w/ 150sx; Circ to surface		Production Casing:	5-1/2" @ 4750' KB w/ 230 sx stage 1, 515 sx stage 2, circ 25 sx to surf, DV tool @ 2244' KB
Tubulars:	2- 7/8" 6.5# EUE (Epoxy Coated) @ 4282' KB		Packer:	Arrow XL-W retrievable seal bore @ 4282' KB.
Perforations (MV) 4350-4460' KB 2 s		spf (2000 gals 15	% HCL, Frac w/ 100,000# 20/40)	
		Additio	onal Perforations	
Perforations (MV) None				

Version 2: Lowereed proposed injection rate. Procedure subject to change based on changing well conditions.

Proposed Test Schedule:

Date	Event	Remarks
Monday, June 26th 2017	Check conditions, Perform MIT and Begin injection (50 hrs)	TD, Fill, Restrictions and hang Gauges
Wednesday, June 28th 2017	End Injection and Begin FOT	Shut-Injand monitor
Wednesday, July 5th 2017	164 hrs	Could pull gauges at this point

Test Considerations:

- V.1 The triplex pump at the facility is capable of maintaining a constant rate of 3000 bpd against the anticipated injection pressures.
- V.2 The injection rate of 3000 bpd (87.5 gpm) will be sufficient to produce valid test data. (For reference: During normal injection at 3600 bpd (8 hrs) the surface pressure build up is approx. 200 psi with a mirrored fall off over a 8 hr period.)
- V.3 The normal waste liquid will be used during the FOT due to the cost effectiveness and availability.
- V.4 The total volume of fluid needed for the FOT is 6250 bbls.
 - a) A total of 3600 bbls will be onsite prior to starting the injection for the FOT and water will continue to be hauled to facility in the case that more fluid is needed during the injection period.

 b) I overing the Injection rate will be considered if well conditions positive periods as storage of their
 - b) Lowering the Injection rate will be considered if well conditions merit a change or storage of fluid becomes a constraint.
 - c) City water will be purchased for the FOT if it becomes necessary to make up the volume required for the test.
- V.5 The gauges will be RIH and the injection period will be a minimum of 50 hrs to ensure radial flow and stabilization. A total of 15 hrs was calculated using the EPA Region 6 UIC Pressure Falloff Testing Guideline design calculations found on pg A-4. The fall off portion will be a minimum of 72 hrs justified by this being the time frame used on the previous FOT.
- V.6 There will be adequate storage capacity for waste water for the duration of the FOT.

AGUA MOSS, LLC

TEST PLAN FOR PRESSURE FALL-OFF TEST (FOT)

V.7 There is one offset well completed in the Point Lookout disposal formation. The McGrath #4 is a class II disposal operated by ConocoPhillips approx 1.25 miles to the north west of the Sunco #1. The well has been P&A'd, so there will not be any injection activity from offset wells during the FOT.

V.8 Crown valve is currently in-place on the Sunco #1 wellhead. The gauges will be RIH through a lubricator prior to the injection period.

V.9 A shut-in valve is located on the injection riser approx 3-feet from the wellhead. This valve can be shut quickly to reduce erratic pressure response and minimize the wellbore storage.

V.10 Prior to the FOT a gauge ring will be run through the tubing to ensure no restrictions in the tubing and slickline will also be used to tag up and determine wellbore fill. Test parameters will be adjusted accordingly or the needed the repairs will be made to remedy the situation.

V.11 Surface readout gauges will not be used in the FOT data collection due to cost and the fact Key performed the 2010 FOT with tandem memory down hole gauges with successful data collection. The gauges used will be latest available technology from Teftiller, Inc which will meet or exceed the pressure range, accuracy and resolution requirements. The gauges will be setup on auto resolution capture based on pressure change. Each gauge will be setup with a different auto resolution range to ensure all data in captured accurately.

V.12 A test log will be kept during the test and submitted with the FOT results. The log will include key events with date and times.

- Gauge ring run
- Tag depth
- Gauge activation
- Gauges on bottom
- Injection start
- Injection stop
- Well isolation
- Pressure stabilization
- End of Fall Off

V.13 Surface pressures will be recorded continuously using a chart recorder during the FOT. If any abnormal surface pressure change occurs the test validity will be questioned and the test will be aborted if deemed invalid.

V.14 The memory gauges being used for the FOT have auto resolution capability that changes the resolution based on rate of pressure change. First gauge will be configured to obtain data every 15 seconds and adjust to every one minute. The second gauge will be configured to obtain data every 30 seconds and adjust to every two minutes. Memory capacity is 35 day and 69 days respectfully. The minimum 15 second resolution was used during the 2010 FOT and proved to be acceptable. The length of the fall off portion is based on the 2016 FOT, 120 hours proved to be adequate.

V.15 The tri-plex injection pump at the facility that is normally used for injection will be used for the FOT. It is a positive displacement pump running at a constant RPM which will ensure constant injection rate during the FOT. A constant injection rate of approximately 3000 bpd will be sufficient to create a minimum of 100 psi differential between final injection pressure and shut-in pressure. The rate will be carefully monitored prior to shut down to ensure a steady state injection is maintained prior to beginning the fall-off portion of the test.