



**FOUNDATION**  
**ENERGY MANAGEMENT, LLC**

Foundation Energy Management, LLC  
16000 North Dallas Parkway, Suite 875  
Dallas, Texas 75248

December 28, 2015

Colorado Oil and Gas Corporation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203  
ATTN: Rob Young

**RE: SPILL ID# 441818**

Dear Rob Young,

Foundation Energy Management, LLC (Foundation) is submitting the sampling results for the Spill ID# 441818, RMR Ranch #14-36.

On our previous submitted samples, the NW was high in SAR (21.53) at 6" deep. We have retested the site and the results are as follows.

Below is a table that outlines what samples we took and their thresholds. Attached to this letter is the complete sampling report and a map of where the samples were taken.

Location of Sample	Depth of Sample	Tested for	Sample Taken Date	Sample Result	Table 910-1 Standard	Below Standards?
NW	6"	pH	12/21/2015	6.8	6-9	YES
NW	6"	SAR	12/21/2015	0.65	< 12	YES
NW	6"	EC	12/21/2015	2.14	< 4 mmhos/cm or 2x Background	YES

Please contact me at (918) 526-5591 or [cohair@foundationenergy.com](mailto:cohair@foundationenergy.com) if you have any questions.

Regards,

Caitlin O'Hair  
HSE/Regulatory Tech

**Tulsa Office**

15 East 5<sup>th</sup> Street, Suite 1200  
Tulsa, Oklahoma 74103  
P: 918-526-5510 F: 918-585-1660

**Corporate Office**

16000 Dallas Parkway, Suite 875  
Dallas, Texas 75248  
P: 972-707-2500 F: 972-934-8610

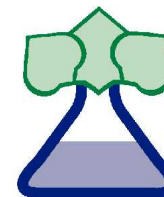
**Denver Office**

1801 Broadway, Suite 1500  
Denver, Colorado 80202  
P: 303-244-8100 F: 303-861-0604

# American Agricultural Laboratory, Inc.

40469  
FOUNDATION ENERGY COMPANY  
16000 NORTH DALLAS PARKWAY  
SUITE 875  
DALLAS TX 75248

210 East 1st / PO Box 370 / McCook, Nebraska 69001  
Office: 308-345-3670 / FAX: 308-345-7880  
www.AmAgLab.com



NAME : FOUNDATION ENERGY

DATE RECEIVED: 12/21/2015

DATE REPORTED: 12/24/2015

## SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		LIME REC T/A 60% ECCE		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS				
				1 : 1 Soil	Buffer Woodruff	Legume	Non Legume				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm
1344957	RM R14 36 NW		0-6	6.8				N	2.14								

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION					
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na
1344957										0.5							

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
1344957	12.65	7.79	2.09	0.65	1	0.0										

## SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N lbs/A	P2O5 lbs/A	K2O lbs/A	S lbs/A	Zn lbs/A	MgO lbs/A	Fe lbs/A	Mn lbs/A	Cu lbs/A	B lbs/A	Cl lbs/A
1344957	RM R14 36 NW														

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab