



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

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

October 5, 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 6" below grade sampling results for the Spill ID# 441818, RMR Ranch #14-36.

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
Background	0-8"	pH	9/25/2015	7.2	6-9
NW	0-8"	pH	9/25/2015	7.6	6-9
Middle	0-8"	pH	9/25/2015	6.9	6-9
South	0-8"	pH	9/25/2015	7.5	6-9
Background	0-8"	SAR	9/25/2015	1.06	< 12^5
NW	0-8"	SAR	9/25/2015	21.53	< 12^5
Middle	0-8"	SAR	9/25/2015	4.65	< 12^5
South	0-8"	SAR	9/25/2015	10.83	< 12^5
Background	0-8"	EC	9/25/2015	1.14	< 4 mmhos/cm or 2x Background
NW	0-8"	EC	9/25/2015	3.52	< 4 mmhos/cm or 2x Background
Middle	0-8"	EC	9/25/2015	0.76	< 4 mmhos/cm or 2x Background
South	0-8"	EC	9/25/2015	1.74	< 4 mmhos/cm or 2x Background

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**

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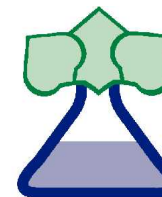
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# American Agricultural Laboratory, Inc.

40469  
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DALLAS TX 75248

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NAME : FOUNDATION ENERGY

DATE RECEIVED: 09/25/2015

DATE REPORTED: 09/30/2015

## 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
1304573	RMR14 63	BACKGROUND	0-8	7.2				N	1.14								
1304574	RMR14 63	NW	0-8	7.6				N	3.52								
1304575	RMR14 63	MIDDLE	0-8	6.9				N	0.76								
1304576	RMR14 63	SOUTH	0-8	7.5				N	1.74								

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
1304573										0.7							
1304574										2.8							
1304575										0.9							
1304576										1.3							

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		
1304573	2.21	2.35	1.60	1.06	1	0.0										
1304574	6.97	4.63	51.86	21.53	31	1.4										
1304575	2.46	0.93	6.06	4.65	6	0.0										
1304576	3.38	1.71	17.28	10.83	15	1.2										

## 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
1304573	RMR14 63	BACKGROUND													
1304574	RMR14 63	NW													
1304575	RMR14 63	MIDDLE													
1304576	RMR14 63	SOUTH													

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab

RMR 14-36

Crop  
Circle

40.0914,  
-102.58370

NW

water tank

E

40.0912916,  
-102.58350

SW

40.0911805,  
-102.58358

Lease Road

Back ground

40.0913916,  
-102.58335