### State of New Mexico

### Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



Matthias Sayer Deputy Cabinet Secretary

### MEMORANDUM

Date: October 24, 2017

To: Files: Administrative Orders SWD-806-B, SWD-1010, SWD-1055

From: Phillip Goetze, Engineering Bureau, OCK

## **RE: ADDITION OF NEW WATER SOURCES FOR THREE CLASS II DISPOSAL WELLS, SAN JUAN COUNTY, NEW MEXICO**

### **CLASS II WELL INFORMATION:**

- 1. Well Name: Juniper SWD Well No. 1API No. 30-045-29732Well Location: Unit D, Section 16, T24N, R10W, NMPM; 880' FNL and 730' FWLInjection Authority: SWD-806-B dated May 18, 2006[IPI-302 dated June 30, 2008]
- Well Name: Juniper West SWD Well No. 1 API No. 30-045-33771
   Well Location: Unit N, Section 24, T24N, R11W, NMPM; 700' FSL and 1715' FWL
   Injection Authority: SWD-1055 dated December 1, 2006 [IPI-293 dated March 11, 2008]
- 3. Well Name: Juniper Well No. 4

API No. 30-045-32783

Well Location: Unit N, Section 17, T24N, R10W, NMPM; 660' FSL and 2015' FWL Injection Authority: SWD-1010 dated December 27, 2005 [IPI-416 dated February 14, 2014]

Coleman Oil & Gas, Inc. (OGRID No. 4838), the operator for the referenced salt water disposal (SWD) wells, has requested the addition of a new fluid source for disposal into all three SWD wells. All three SWD wells are active disposal wells with completions in the Mesaverde Group (with a combination of perforations in the Menefee Formation and Point Lookout Sandstone). Additionally, all three wells operate under approved Injection Pressure Increase (IPI) orders. The surface pressure gradients for these IPI orders range from 0.44 psi/foot to 0.62 psi/foot.

Previous sources for disposal in the three SWD had been identified in the C-108 applications for each well as being from coalbed methane (CBM) production in the Fruitland Formation.

The new sources will be from horizontal oil wells recently completed in the Mancos Shale. The operator proposes blending of the new source water with the Fruitland Formation production water to reduce any potential impacts to the SWD wells and their reservoir.

The operator provided recent analyses of the general chemistry for both the existing fluids being injected into the SWD wells and the new sources. This data is summarized in Table 1 (New Sources) and Table 2 (Existing SWD Fluids).

Coleman Oil & Gas, Inc. Addition of New Water Sources for Three Class II Disposal Wells, San Juan County, New Mexico October 24, 2017 Page 2 of 2

Source			1	Major Ion	Concent	rations*		
Identification	Sample Date	TDS	Cl	Na⁺	K+	SO <sub>4</sub>	Fe(II)	pH
Good Times 24-10	11/13/2015	24700	12200	7720	203	18.1	178	5.59
Pinon 1H	11/13/2015	29100	16300	10500	86.4	<2.00	<4.5	7.39
Pinon 2H	11/13/2015	28800	15400	10400	88.6	<2.00	23.1	7.08

### **Table 1: Summary of New Sources Analytical Results**

\*All concentrations, except pH value, are in milligrams per liter (mg/L).

### **Table 2: Summary of Analytical Results for SWD Wells**

Source	Sample		N	Major Ion	Concent	rations*	*						
Identification	Date	TDS	Cl.	Na <sup>+</sup>	<b>K</b> +	SO <sub>4</sub>	Fe(II)	pН					
Juniper SWD No. 1	9/26/2017	16600	10100	3440	50.0	<200	<2.00	7.46					
Juniper West SWD No. 1	9/26/2017	14100	8380	2930	35.9	<2.00	<2.00	7.86					
Juniper SWD No. 4	9/26/2017	13400	8480	2860	34.8	<200	<2.00	7.41					

\*All concentrations, except pH value, are in milligrams per liter (mg/L).

The analytical results for the new source waters indicate an average range of total dissolved concentrations (TDS) that are approximately 87 percent greater than current TDS values in the SWD well samples. However, the blending of the old and new produced water sources will reduce the TDS values as not to impact the reservoir. Accelerated scaling in the well bore will require additional maintenance and should be considered before application for a new IPI in any of the wells. Overall cation/anion concentrations of the new sources do not indicate any unusual distribution that might cause concern.

The review by the Engineering Bureau of the purposed action to include the new sources (while blending with the exiting CBM produced waters) is acceptable. The addition of new disposal fluids is defined as a minor modification [not requiring notice for permit modification] and the Bureau recommends the approval by the District of the C-103s for the inclusion of the new sources for each SWD well.

The Bureau does recommend that any future IPI applications have step-rate tests that are conducted using this new produced water chemistry.

Submit 1 Copy To Appropriate District Office <u>District J</u> - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> - (575) 748-1283 811 S. First St., Artesia, NM 88210 <u>District III</u> - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mez Energy, Minerals and Natur OIL CONSERVATION 1220 South St. Fran Santa Fe, NM 87	DIVISION	Form C-103 Revised July 18, 2013 WELL API NO. 30-045-33771 5. Indicate Type of Lease STATE
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)		G BACK TO A	7. Lease Name or Unit Agreement Name Juniper West SWD
····· ,	as Well 🔲 Other SWD; Mesa	Verde	8. Well Number #1
2. Name of Operator Coleman Oil & Gas, Inc			9. OGRID Number 4838
3. Address of Operator P.O. Drawer 3337, Farmington N	M 87401		10. Pool name or Wildcat SWD: Mesa Verde
4. Well Location			
Unit Letter N: 700 feet fro	om the South line and 1715 feet fr	om the West line	
Section 24 Township	24N Range 11W NMPM Cou	unty San Juan	
	11. Elevation (Show whether DR, 6436' GL	RKB, RT, GR, etc.)	
12. Check Aj	ppropriate Box to Indicate Na	ature of Notice, R	Leport or Other Data
NOTICE OF INT PERFORM REMEDIAL WORK	ENTION TO:         PLUG AND ABANDON         CHANGE PLANS         MULTIPLE COMPL	SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT	

OTHER: OT

Coleman Oil & Gas respectfully request permission to accept Mancos Produced Water into the Juniper West SWD #1 Disposal. Water will be primarily transferred through produced water gathering system operated by Coleman Oil & Gas, Inc. If produced water gathering system is down for repairs, water will be trucked. See the attached water analysis taken from three Mancos producers. Mancos produced water will be blended with Basin Fruitland Coal water.

Coleman Oil & Gas is a joint working interest owner in the Pinon Unit, Horizontal Mancos producers.

Juniper West SWD #1 Administrative Order SWD-1055

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Spud Date: January 11, 2017

CLOSED-LOOP SYSTEM

Rotary Rig Release Date: January 17, 2017

I hereby certify that the information above is tr	ue and complete to the best of my knowledge	and belief.	
	_		
SIGNATURE ////////////////////////////////////	TITLE: Operations Engineer	DATE: August 29, 2017	
Type or print name: Michael T. Hanson For State Use Only	E-mail address: mhanson@cog-fmn.com	PHONE: (505) 327-0356	
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE	



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

Laboratories						www.Gree	nAnalytical.c	<u>om</u>
Baker Hughes 1215 Basin Rd Farmington NM, 87401	Projec	t Name / N	roject: API + umber: Coleman mager: Matt Pulte		· · · · · · · · · · · · · · · · · · ·		<b>Reported:</b> 01/03/14 15	
	Ę	oleman .	luniper West S	WD#I				
		131	2198-01 (Water)	)			<u></u>	
Anslyte	Result	RL	MDL U	inits Dilution	n Analyzed	Method	Notes	Analyst
General Chemistry				· · · · · · · · ·				
Ikalinity, Bicarbonate*	500	10.0		ng/L 10	01/02/14	2320 B	Qi	JAW
Ikalinity, Carbonate*	<10.0	10.0	· · · · · · ·	ng/L 10	01/02/14	2320 B	QI	JAW
lkalinity, Hydroxide*	<10.0	10.0		ng/L 10	01/02/14	2320 B	. Q1	JAW
Ikalinity, Total*	500	10.0	π	ng/L 10	01/02/14	2320 B	. Q1	JAW
`hloride*	8200	1000	500 m	ng/L 100	12/31/13	4500-Cl- C		JAW
Conductivity*	25100	10.0	ŭ	S/cm 1	12/27/13	2510 B		ΜЈΫ
lardness	332	66.2	0.880 п	ng/L 10	01/02/14	2340 B		JGS
H.	7.75			Units 1	12/27/13	EPA150.1	HI	MJV
Resistivity	39.9	•	oh	m/cm 1	12/31/13	2510 B	· · · ·	DJZ
Silcia Potentially Dissolved	14.1	10.7	7.38 I	ng/L 10	01/02/14	2340 B		JGS
Specific Gravity	1.011	· · · ·		N/A 1	12/30/13	Hydrometer, Modified Bouyoucos	H2	ABP
Sulfate	<10.0	10.0	1.08	ng/L I	12/31/13	4500-SO42- E		ABP
TDS*	13600	10.0	· · · · · · · · · · · · · · · · · · ·	mg/L 1	01/02/14	EPA160.1	H2, Q1	JAW
Potentially Dissolved Metals by ICI	<u>e</u>		··· ··· · ··· ·				· · · · · · · ·	
Barium*	5.44	0.100	0.038	mg/L 10	01/02/14	EPA200.7		JGS
Calcium*	92.6	10.0	0.039	mg/L 10	01/02/14	EPA200.7		JGS
lrop*	5.81	0.500	0.040	mg/L 10	01/02/14	EPA200.7		JGS
Lead*	<1.00	1.00	0.240	mg/L 10	01/02/14	EPA200.7		JGS
Magnesium*	24.4	10.0	0.190	mg/L 10	01/02/14	EPA200.7		JGS
Manganese*	0.104	0.050	0.004	mg/L 10	01/02/14	EPA200.7		JGS
Potassium*	29.7	10.0	3.64	mg/L 10	01/02/14	EPA200.7	M5	JGS
Silicon	6.58	5.00	3.45	mg/L 10	01/02/14	EPA200.7		JGS
Sodium*	4740	10.0	0.041	mg/L 10	01/02/14	EPA200.7	, i.e.,	JGS
Strontium*	6.18	1.00	0.003	mg/L 10	01/02/14	EPA200.7		JGS
Zinc*	<0.500	0.500	0.025	mg/L 10	01/02/14	EPA200.7		JGS

**Cation/Anion Balance** 

-5.69

Composite sample Juniper WEST SWD#1

Green Analytical Laboratories

Zufett

Debbie Zufelt, Reports Manager

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### **Analytical Report**

### **Report Summary**

Client: Coleman Oil & Gas Chain Of Custody Number: Samples Received: 9/26/2017 5:15:00PM Job Number: 05206-0001 Work Order: P709056 Project Name/Location: Juniper West SWD #1

Dalter Hinde

Date:

Date:

10/13/17

10/13/17

**Report Reviewed By:** 

Walter Hinchman, Laboratory Director

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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Coleman Oil & Gas	Project Name:	Juniper West SWD #1	
P.O. Box 3337	Project Number:	05206-0001	 Reported:
Farmington NM, 87499	Project Manager:	Mike Hanson	13-Oct-17 14:27
		• • • •	 · · · · · · · · · · · · · · · · · · ·

### Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
Produced Water	P709056-01A	Water	09/26/17	09/26/17	Poly 500mL	
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	Analytical Laborator		

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Coleman Oil & Gas	Project Nan	ne:	Junij	per West SW	D #1				
P.O. Box 3337	Project Nur	nber:	0520	06-0001			· ·	Reported:	
Farmington NM, 87499	Project Mai	nager:	Mike	e Hanson		· · ·		13-Oct-17 14	:27
			uced Wa 66-01 (W						
	R	eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
/et Chem/Gravimetric		•							
otal Dissolved Solids	14100	10.0	mg/L	I	1739026	09/29/17	10/03/17	SM2540C	
issolved Metals by 6010	· · · · · · ·		• •		,	· · · · · · · ·			
alcium	103	0.50	mg/L	1	1739020	09/28/17	10/12/17	EPA 6010C	
on	ND	2.00	mg/L	1	1739020	09/28/17	10/12/17	EPA 6010C	
lagnesium	23.0	0.20	mg/L	1	1739020	09/28/17	10/12/17	EPA 6010C	
otassium	35.9	0.50	mg/L	1	1739020	09/28/17	10/12/17	EPA 6010C	
odium	2930	2.00	mg/L	1 .	1739020	09/28/17	10/12/17	EPA 6010C	
odium Absorption Ratio	68.0		N/A	L.	1741028	10/13/17	10/13/17	[CALC]	
nions by 300.0	· · · · · · · · · · · · · · · · · · ·		•				•	······································	
uoride	ND	25.0	mg/L	100	1739016	09/27/17	09/27/17	EPA 300.0	
hloride	8380	200	mg/L	100	1739016	09/27/17	09/27/17	EPA 300.0	
itrite-N	ND	25.0	mg/L	100	1739016	09/27/17 11:33	09/27/17 15:07	EPA 300.0	
itrate-N	ND	25.0	mg/L	100	1739016	09/27/17 11:33	09/27/17 15:07	EPA 300.0	
Phosphate-P	ND	25.0	mg/L	100	1739016	09/27/17 11:33	09/27/17 15:07	EPA 300.0	
ulfate	ND	200	mg/L	100	1739016	09/27/17	09/27/17	EPA 300.0	
let Chemistry				 					· · ·
H @25°C	7.86		pH Units	1	1739023	09/29/17 08:27	09/29/17 10:51	9040C/4500	
pecific Conductance (@ 25 C)	24200	10.0	uS/cm	1	1739024	09/29/17	09/29/17	H+B 9050A/2510 B	
otal Alkalinity (as CaCO3 at pH 4.5)	605	10.0	mg/L	1	1739025	09/29/17	10/02/17	SM2320B	
icarbonate Alkalinity (as CaCO3)	605		mg/L	1	1739025	09/29/17	10/02/17	SM2320B	
ydroxide Alkalinity (as CaCO3)	0.00		mg/L	1	1739025	09/29/17	10/02/17	SM2320B	
	0.00		mg/L		1739025	09/29/17			

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		Chem/Grav	•				.'				
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nalyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	] <sub>: :</sub>
tch 1739026 - Wet Chemistry Preparation	·	·									
ank (1739026-BLK1)		<u></u>		Prepared: 2	9-Sep-17	Analyzed: 03	8-Oct-17		·		_
al Dissolved Solids	ND	10.0	mg/L								
CS (1739026-BS1)	· · · · · · ·				9-Scp-17	Analyzed: 03		· · · · · · ·		· · ·	-
al Dissolved Solids	84.0	10.0	mg/L	100		84.0	<b>50-1</b> 50				
plicate (1739026-DUP1)		ce: P709055-0		Prepared: 2		Analyzed: 03	-Oct-17				÷
al Dissolved Solids	16100	10.0	mg/L	• • •	16600	· · ···	· ·· ·	3,31	5	:	·***
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Coleman Oil & Gas		Proj	ect Name:	Jı	iniper West	SWD #1				_	
P.O. Box 3337		Proj	ect Number:	0:	5206-0001	1 . t				Repo	rted:
Farmington NM, 87499	· · ·	Proj	ect Manager:	M	like Hanson	··· ·				13-Oct-1	17 14:27
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		En	virotech A	nalyti	cal Labo	ratory			•••		
			Reporting		Spike	Source		%REC		RPD	
nalyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
atch 1739020 - Metals Wate	er Hotblock Diges	tion EPA 3	010A/200.2			<u> </u>				<u>.</u>	
ank (1739020-BLK1)	· ·				Prepared:	28-Sep-17 A	nalyzed:	03-Oct-17			
lcium	11	ND	0.50	mg/L							
n		ND	2.00	. "		·			: : : : :		
agnesium		ND	0.20			el el Ster		: .	, na stratil		:
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leium		55.6	0.50	mg/L	50.0		111	85-115			
n		55.2	2.00		50.0		110	80-120			•••
agnesium		46.6	0.20		50.0		93.2	85-115		•	
tassium	· · · · · ·	4.75	0.50		5.00	· ·	95.0	85-115			
dium		48.2	2.00		50.0		96.3	85-115			
atrix Spike (1739020-MS1)	in de Belde. Inte	Sour	ce: P709062-	06	Prepared:	28-Sep-17 A	nalvzed:	03-Oct-17	14 - 14 <sup>1</sup> -	 	
leium	• •	102	0.50	mg/L	50.0	50.5	103	70-130			
on .		51.3	2.00		50.0	ND	103	75-125	· · · · · · ·		· · · · · ·
agnesium		49.8	0.20	. N	50.0	2.53	94.6	70-130			
otassium		7.29	0.50	<b>.</b>	5.00	2.14	103	70-130	· · · ·	· ··.	
dium		66.0	2.00	н.	50.0	15.2	101	70-130		. : :	
atrix Spike Dup (1739020-MS	(D1)	Sour	ce: P709062-	06	Prepared:	28-Sep-17 A	nalvzed:	03-Oct-17	• •	• •	
lcium		105	0.50	mg/L	50.0	50.5	109	70-130	2.71	20	
n		53.5	2.00		50.0	ND	107	75-125	4.05	20	
agnesium		49.8	0.20		50.0	2.53	94.5	70-130	0.0402	20	
ntassium		7.12	0.50		5.00	2.14	99.6	70-130	2.30	20	

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Coleman Oil & Gas		P	roject Name:	J	uniper West S	WD #1						٦
P.O. Box 3337		P	roject Number:	0	5206-0001					Report	ed:	
Farmington NM, 87499		P	roject Manager:	Ν	/ike Hanson					13-Oct-17	14:27	
	·····		Anions by 3	00.0 - (	Quality Co	ntrol						است
	· · · ·	1	Envirotech A									
<u> </u>										· · · · · ·		1
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
		Acoun		01113		Kcsun		Linus		Cuur	140(03	1
atch 1739016 - Anion Extractio	on EPA 300.0				<u>.</u>		·			<u>.</u>		-
lank (1739016-BLK1)					Prepared 8	Analyzed:	27-Sep-17					
luoride		ND	0.25	mg/L								-
Chloride		ND	2.00			. <sup>1</sup> . Ei -		: : .	1. <u>1</u> . 1			·
litrite-N		ND	0.25	•			· · · ·					
litrate-N		ND	0,25	•				÷ :.				
-Phosphate-P	an an ar ar a'	ND	0.25	••••	•				• • •			• •
ulfate		ND	2.00	• •		···· :						1
LCS (1739016-BS1)	*	۰.			Prenared A	Analyzed:	27-Sen-17					
luoride		2.57	0.25	mg/L	2.50		103	90-110			:	-
Chloride		25.6	2.00	•	25.0		102	90-110				
Jitrite-N		2.59	0.25		2.50		104	90-110				
litrate-N		2.45	0.25	н	2.50	· · ·	98.1	90-110	1. I.I. I.	· · · · ·		
-Phosphate-P		11.8	0.25	"	12.5		94.5	90-110				
Sulfate		25.3	2.00	• ·	25.0		101	90-110			14 d.	
A		~	D500027		D						:	. '
Aatrix Spike (1739016-MS1)		262	ource: P709055-			2 Analyzed:			<u> </u>		<u> </u>	<u> </u>
			25.0	mg/L	250	ND	105	80-120		· .		
Chloride Nitrite-N		12600 257	200 25.0		2500 250	10100	102	80-120				
vitrite-N	1. A	257	25.0		250	ND ND	103	80-120				
		248 1200	25.0	: .	1250	ND	99.1 05.6	80-120 80-120	· · · · ·			j.
o-Phosphate-P Sulfate		2560	25.0	H.,	2500	ND ND	95.6 102	80-120 80-120			·· · · ·	
								•				
Matrix Spike Dup (1739016-MSD1)	· · · · · · · · · · · · · · · · · · ·		ource: P709055-			Analyzed:			· · · · · ·			 
luoride		261	25.0	mg/L	250	ND	104	80-120	0.650	20		
Chloride		12500	200	•	2500	10100	98.6	80-120	0.633	20		
hitrite-N		257	25.0		250	ND	103	80-120	0.117	20		
litrate-N	· · · · ·	246	25.0		250	ND	98.6	80-120	0.567	20		
-Phosphate-P	· · · · · · · ·	1190	25.0	11	1250	ND .	95.I	80-120	0.554	20		
Sulfate		2540	200	ы	2500	ND	102	80-120	0.671	20	a de la ferra	
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Coleman Oil & Gas P.O. Box 3337		Number: 052	iper West SWD #1 206-0001	· .	· · · · · · · · · · · · · · · · · · ·	Reported:	
Farmington NM, 87499			ke Hanson			13-Oct-17 14:27	
	We	t Chemistry - Qu	ality Control		· . ·		
	Envi	rotech Analytic:	al Laboratory	:			
		Reporting	Spike Source	%REC	<del></del> .	RPD	
Analyte	Result	Limit Units	Level Result	%REC Limits		Limit Note	<b>s</b>
Batch 1739023 - Wet Chemistry Preparati	on		· · · · ·				
LCS (1739023-BS1)	 		Prepared & Analyzed	: 29-Sep-17			
H	7.98	pH Units	8.00	99.9 ¥8.75-101	.25		
Duplicate (1739023-DUP1)		P709055-01	Prepared & Analyzed	: 29-Scp-17	· · · · ·		<u>·.·</u> .
pH	7.41	pH Units	7.46		0.672	20	
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 Page 7 of 11
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 Page 7 of 11

Coleman Oil & Gas P.O. Box 3337 Farmington NM, 87499		Ргојес	rt Name: et Number: et Manager:	0:	iniper West S 5206-0001 like Hanson	WD#1		· · · · · · · · · · · · · · · · · · ·		Report 13-Oct-17	
· · · · · · · · · · · · · · · · · · ·					uality Col		·				······································
· ·		Env	irotech A	Analyti	cal Labor	atory					
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atch 1739024 - Wet Chemistry I	Preparation	· · · · · · · · · · · · · · · · · · ·		•	· · · · ·	-	· · ·				
lank (1739024-BLK1)					Prepared &	& Analyzed:	29-Sep-17				·
ecific Conductance (@ 25 C)		ND	10.0	uS/cm							
CS (1739024-BS1)					Prepared &	k Analyzed:	29-Scp-17				
pecific Conductance (@ 25 C)	•	1420	10.0	uS/cm	1410		101	98-102			
Duplicate (1739024-DUP1)			e: P709055-		Prepared d	& Analyzed:	29-Sep-17		<u></u>		. · · ·
pecific Conductance (@ 25 C)		28100	10.0	uS/cm		28000		· · · · · ·	0.357	20	• • • • • •
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	. · · ·	: :				
Coleman Oil & Gas	Project N	-	West SWD #1			
P.O. Box 3337	Project N				Report	
Farmington NM, 87499	Project N	lanager: Mike H	lanson	<u></u>	13-Oct-17	14:27
	Wet	Chemistry - Quali	ty Control			:
	Envir	otech Analytical I	Laboratory			1. S.
Analyte	Result		Spike Source Level Result	%REC %REC Limits	RPD RPD Limit	Notes
			•	<u> </u>	·	<u> </u>
atch 1739025 - Wet Chemistry Prepara	111011				·····	<u> </u>
CS (1739025-BS1) otal Alkalinity (as CaCO3 at pH 4.5)	260	10.0 mg/L	250 250 250	Analyzed: 02-Oct-17 104 70-130		;
· .	4				· · · ·	
uplicate (1739025-DUP1) otal Alkalinity (as CaCO3 at pH 4.5)	Source: 1 385	2709055-01 Pre 10.0 mg/L	pared: 29-Sep-17	Analyzed: 02-Oct-17	2.63 20	<u> </u>
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				•••••••		

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	:					
P.O. Boz	n Oil & Gas ( 3337 ton NM, 87499	Project Name: Project Number: Project Manager:	Juniper West SWD #1 05206-0001 Mike Hanson		Reported: 13-Oct-17 14:27	
		Notes and D	efinitions			
Н1	Sample was received after regulatory hold-tir	ne exceeded for target an	alyte.			٦.
DET	Analyte DETECTED				. : .	
ND	Analyte NOT DETECTED at or above the reportin	g limit	÷		::::::::::::::::::::::::::::::::::::::	
NR	Not Reported		· · · · · · · · · · · · · · · · · · ·			
dry	Sample results reported on a dry weight basis				· · · · · · · · ·	
RPD	Relative Percent Difference					
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		· · ·		·	Page 10 of 11

Project l	nformați	on					Chain of	f Custody												Page_	1	_ of
Client:	Cole	MAN	0.24	ets, Li	ve is		<b>Report Attention</b>	n	1 State		La	b Us	e Or	ly	Sales I		TA	T	F	EPA Pr	ogran	n
Project:			EST SU		B	eport due	by:	La la constante	Lab	WO	#	112	Job	Num	ber		1D	3D	RCRA	CM	VA	SDWA
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Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	(ATTON)	Amons				Rema	arks
P.ISPM	9/24/art	Hoo	1	PIDD	WED L	water		1								Y	R					
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Addition	al Instru	ictions:					Vis in	in coole														
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Alla	alm		Date 9/7	6/2017	5:151	in	1 in	926/1:	1		-15		Rece	eived				Y/	Contraction of the second second			
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														Ten	np°C				No.	- 13	31445	
Sample Ma	rix: S - Soil.	Sd - Solid, S	g - Sludge, A	- Aqueous	0 - Other			Containe	r Typ	e: g -	glass	and the owner where the		and the second se	and the second se			COLUMN TWO IS NOT	. V-VO	A	en al dat bing	one des automatificaçãos
Note: Samp	les are disca	rded 30 day	ys after resul	its are repor	ted unless oth		s are made. Hazardous e liability of the laborao	samples will be re	eturne	d to cli	ent or	dispos	ed of	at the							is of the	e above
5	en	vir	ote		1		6766 IN Ulabora 44 5-	In. 181 87464				<b>DL</b> (1)		Acte	P. IFAP	(33.46						
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					/			and a set a set a set and a set a														



### **Analytical Report**

### **Report Summary**

Client: Coleman Oil & Gas Chain Of Custody Number: Samples Received: 11/16/2015 7:05:00AM Job Number: 05206-0001 Work Order: P511033 Project Name/Location: Good Times 24-10

Date: 11/25/15

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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			Page 1 of 6



Coleman Oil & Gas	Project Name:	Good Times 24-10	
P.O. Box 3337	Project Number:	05206-0001	Reported:
Farmington NM, 87499	Project Manager:	Mike Hanson	25-Nov-15 12:07
L			

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Good Times 24-10	P511033-01A	Aqueous	11/13/15	11/16/15	Poly 500mL

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Page 2 of 6

Coleman Oil & Gas P.O. Box 3337	-	Project Name: Good Times 24-10 Project Number: 05206-0001			0			Reported:	
Farmington NM, 87499	Project	Project Manager: Mike Hanson						25-Nov-15 12	:07
		Good	Times 24	-10					
		P51103	33-01 (Wa	ter)					
Analytc	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
рН @20.6°С	5.59		pH Units	1	1547032	11/20/15 14:31	11/20/15 14:35	150.1/4500H	
Electrical Conductivity	28900		umhos/cm	1	1547032	11/20/15 14:31	11/20/15 14:35	EPA 120.1	
Total Dissolved Solids	24700	10.0	mg/L	1 I	1547020	11/19/15	11/19/15	160.1/2540C	
Sodium Absorption Ratio	140		N/A	1	1548015	11/25/15	11/25/15	[CALC]	
Total Alkalinity as CaCO3	1080	10.0	mg/L	1	1547021	11/19/15	11/19/15	Hach Method 8203	
Total Hardness as CaCO3	574	18.6	mg/L		[CALC]	11/20/15	11/24/15	[CALC]	
Bicarbonate as CaCO3	ND	10.0	mg/L	1	1547021	11/19/15	11/19/15	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1547021	11/19/15	11/19/15	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1547021	11/19/15	11/19/15	Hach Method 8203	
Nitrate-N	4.43	0.25	mg/L	1	1547013	11/18/15 09:00	11/18/15 18:35	EPA 300.0	H
Nitrite-N	54.1	0.25	mg/L	1	1547013	11/18/15 09:00	11/19/15 19:09	EPA 300.0	F
Chloride	12200	2.00	mg/L	1	1547013	11/18/15	11/19/15	EPA 300.0	
Fluoride	ND	0.25	mg/L	1	1547013	11/18/15	11/19/15	EPA 300.0	
o-Phosphate-P	105	0.25	mg/L	1	1547013		11/19/15 19:09	EPA 300.0	F
Sulfate	18.1	2.00	-	1	1547013	11/18/15	11/18/15	EPA 300.0	
Iron	178	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Calcium	174	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Magnesium	33.9	1.80	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Potassium	203	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Sodium	7720	18.0	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	

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Coleman Oil & Gas	Project Name:	Good Times 24-10	
P.O. Box 3337	Project Number:	05206-0001	Reported:
Farmington NM, 87499	Project Manager:	Mike Hanson	25-Nov-15 12:07

### **Cation/Anion Analysis - Quality Control**

### **Envirotech Analytical Laboratory**

	Danula	Reporting	T faile	Spike	Source	WREC	%REC	BDD	RPD	N-4
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1547013 - Anion Extraction EPA 300.0			·,					·		
Blank (1547013-BLK1)				Prepared &	Analyzed:	18-Nov-15	i			
Nitrate-N	ND	0.25	mg/L							
Nitrite-N	ND	0.25								
Chloride	ND	2.00	-							
Fluoride	ND	0.25	n							
o-Phosphate-P	ND	0.25	"							
Sulfate	ND	2.00	-							
LCS (1547013-BS1)				Prepared &	Analyzed:	18-Nov-1	5			
Nitrate-N	4.76	0.25	mg/L	5.00		95.2	90-110			
Nitrite-N	5.13	0.25	-	5.00		103	90-110			
Chloride	48.6	2.00		50.0		97.1	90-110			
Fluoride	5.13	0.25	"	5.00		103	90-110			
o-Phosphate-P	25.6	0.25	۳.	25.0		102	<b>90-1</b> 10			
Sulfate	47.2	2.00	н	50.0		94.5	90-110			
Matrix Spike (1547013-MS1)	Sou	rce: P511036-	01	Prepared &	k Analyzed:	18-Nov-1	5			
Nitrate-N	48.2	2.50	mg/L	50.0	ND	96.4	80-120			
Nitrite-N	51.4	2.50	H	50.0	ND	103	80-120			
Chloride	571	20.0	и	500	77.7	98.6	80-120			
Fluoride	56.0	2.50	n	50.0	3.90	104	80-120			
o-Phosphate-P	257	2.50		250	ND	103	80-120			
Sulfate	475	20.0		500	ND	95.0	80-120			
Matrix Spike Dup (1547013-MSD1)	Sou	rce: P511036-	01	Prepared &	& Analyzed	18-Nov-1	5			
Nitrate-N	48.1	2.50	mg/L	50.0	ND	96.3	80-120	0.104	20	
Nitrite-N	51.5	2.50		50.0	ND	103	80-120	0.136	20	
Chloride	570	20.0		500	77.7	98.6	80-120	0.0473	20	
Fluoride	56.0	2.50		50.0	3.90	104	80-120	0.0715	20	
o-Phosphate-P	257	2.50	• ,	250	ND	103	80-120	0.0778	20	
Sulfate	475	20.0	*	500	ND	95.0	80-120	0.0211	20	

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P.O. Box	Coleman Oil & GasPrP.O. Box 3337PrFarmington NM, 87499Pr		Good Times 24-10 05206-0001 Mike Hanson	<b>Reported:</b> 25-Nov-15 12:07					
		Notes and I	Definitions						
H2	Sample was analyzed after regulatory hold-time exceeded for target analyte.								
DET	Analyte DETECTED								
ND	Analyte NOT DETECTED at or above the second se	he reporting limit							
NR	Not Reported		,						
dry	Sample results reported on a dry weight basis								
RPD	Relative Percent Difference								

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Page 5 of 6

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	-+												
Client: Coleman Oil + 6+5 Project: 6000 Times 24-10	: , dNC		RUSH?	the second s	b Use Only			Ana	tysis a	nd Me	thod		lab Only
Project: 6000 TIMES Z4-10			1d		ab wo# 033					81.		20-04-02 20-04-02	Š
Sampler: Mille HANSON	<u> </u>		3d							1101	3		5
Phone: 505-330-2903					b Number 2014 - 000				8.		Ę		<u>ĝ</u> ξ
mail(s): Mhanson CC09-fm. Project Manager: Mike Hanson	NICON	<u> </u>	Pag	the second s	2011 52 12 00	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chlortde by 300.0	ġ,			lab Number Correct Cofil/Prsrv (s) Y/N
<u> </u>	Sample Date	Sample	Matrix		ntainers	୷ୄୄ	Â	à	brde	Į į	4	1 A A A A A A A A A A A A A A A A A A A	T E
Sample ID	Sample Date	Time	WIBUTIX	QTY - Vol/T	YPE/Preservath	e B	E	Ē	ð				8
Good TIMES ZA-10	11/15/15	3:004	1 Hzo	Non	e					1		247/050/0514	ı Y.
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Believiene (Signature) Dette Time	1 L A PM	i by: (Signa 1 3/4 7	ture)	Date	Time 7:05	**Rec		onle		Use (	<b>Dnly</b>		
Relinquished by: (Signature) Date Time	Receiver	d by: VSigna	ture)	Date	Time	TILLI			T2			 	
	<u> </u>					AVG T			_				
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Samples requiring thermal preservation must be received on ice the day	they are sampled -	v reveived a	acked in i	at en ave toma ak	Container Ty					iC, 8g -	amber	glass, v - \	/OA
Samples requiring the rink preservation must be received on its the usy Sample(s) dropped off after hours to a secure drop off area.	nest are sembled o	_	f Custody				usseq	asta de	12.				
										·			
envirotech Analytical Laboratory		highway 64, iana				i)632-0615 F							D(n ; ha∵ces"
Analytical Laboratory	Bane Spi	ings + 65 V.erzadt	server. Sume 115	Duango CO BLIDI	Pb 167	1) 339-8615 8	i (1990); 34	9-15N					e 6 of 6

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### **Analytical Report**

### **Report Summary**

Client: Coleman Oil & Gas Chain Of Custody Number: Samples Received: 11/16/2015 7:05:00AM Job Number: 05206-0001 Work Order: P511032 Project Name/Location: Pinon 01H

Entire Report Reviewed By:

Date: 11/25/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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Coleman Oil & Gas	Project Name:	Pinon 01H	
P.O. Box 3337	Project Number:	05206-0001	Reported:
Farmington NM, 87499	Project Manager:	Mike Hanson	25-Nov-15 12:05

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Pinon 01H	P511032-01A	Aqueous	11/13/15	11/16/15	Poly 500mL

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Coleman Oil & Gas P.O. Box 3337 Farmington NM, 87499	Project Name: Pinon 01H Project Number: 05206-0001 Project Manager: Mike Hanson					Reported: 25-Nov-15 12	:05		
			non 01H 32-01 (Wa	tor)					
[	· · · · · · · · · · · · · · · · · · ·	Reporting	52-01 (Wa			<u> </u>			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
pH @20.1°C	7.39	· · · -	pH Units	1	1547032	11/20/15 14:31	11/20/15 14:35	150.1/4500H	
Electrical Conductivity	42800		umhos/cm	1	1547032	11/20/15 14:31	11/20/15 14:35	EPA 120.1	
Total Dissolved Solids	29100	10.0	mg/L	1	1547020	11/19/15	11/19/15	160.1/2540C	
Sodium Absorption Ratio	178		N/A	I	1548015	11/25/15	11/25/15	[CALC]	
Total Alkalinity as CaCO3	519	10.0	mg/L	ł	1547021	11/19/15	11/20/15	Hach Method 8203	
Total Hardness as CaCO3	657	18.6	mg/L		[CALC]	11/20/15	11/24/15	[CALC]	
Bicarbonate as CaCO3	ND	10. <b>0</b>	mg/L	1	1547021	11/19/15	11/20/15	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	I	1547021	11/19/15	11/20/15	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1547021	11/19/15	11/20/15	Hach Method 8203	
Nitrate-N	4.40	0.25	mg/L	1	1547013	11/18/15 09:00	11/18/15 16:02	EPA 300.0	н
Nitrite-N	50.5	0.25	mg/L	1	1547013	11/18/15 09:00	11/19/15 18:25	EPA 300.0	н
Chloride	16300	2.00	mg/L	1	1547013	11/18/15	11/19/15	EPA 300.0	
Fluoride	1.75	0.25	mg/L	1	1547013	11/18/15	11/18/15	EPA 300.0	
o-Phosphate-P	105	0.25	mg/L	1	1547013	11/18/15 09:00	11/19/15 18:25	EPA 300.0	н
Sulfate	ND	2.00	mg/L	1	1547013	11/18/15	11/18/15	EPA 300.0	
Iron	ND	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Calcium	187	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Magnesium	46.4	1.80	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Potassium	86.4	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Sodium	10500	18.0	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	

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Coleman Oil & Gas P.O. Box 3337 Farmington NM, 87499	Proj	ect Name: ect Number: ect Manager:	05	non 01H 206-0001 ike Hanson					Report 25-Nov-15	
		on/Anion A wirotech A	-							
	E11	Reporting		Spike	Source	· · · · · ·	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1547013 - Anion Extraction EPA 30	0.0									
Blank (1547013-BLK1)				Prepared &	: Analyzed:	18-Nov-15	i			
Nitrate-N	ND	0.25	mg/L							
Nitrite-N	ND	0.25								
Chloride	ND	2.00	•							
Fluoride	ND	0.25	9							
D-Phosphate-P	ND	0.25	•							
Sulfate	ND	2.00			1					
LCS (1547013-BS1)		Prep			Analyzed:	18-Nov-12	i			
Nitrate-N	4.76	0.25	mg/L	5.00		95.2	90-110	_		
Nitrite-N	5.13	0.25	н	5.00		103	90-110			
Chloride	48.6	2.00	•	50.0		97.1	90-110			
Fluoride	5.13	0.25	۳	5.00		103	90-110			
o-Phosphate-P	25.6	0.25		25.0		102	90-110			
Sulfate	47.2	2.00	•	50.0		94.5	90-110			
Matrix Spike (1547013-MS1)	Sou	rce: P511036-	01	Prepared &	Analyzed	18-Nov-1	5			
Nitrate-N	48.2	2.50	mg/L	50.0	ND	96.4	80-120			
Nitrite-N	51.4	2.50	"	50.0	ND	103	80-120			
Chloride	. 571	20.0		500	77.7	98.6	80-120			
Fluoride	56.0	2.50	"	50.0	3.90	104	80-120			
o-Phosphate-P	257	2.50	"	250	ND	103	80-120			
Sulfate	475	20.0	n	500	ND	95.0	80-120			
Matrix Spike Dup (1547013-MSD1)	Sou	rce: P511036-	01	Prepared &	k Analyzed	: 18-Nov-}:	5			
Nitrate-N	48.1	2.50	mg/L	50.0	ND	96.3	80-120	0.104	20	
Nitrite-N	51.5	2.50		50.0	ND	103	80-120	0.136	20	
Chloride	570	20.0	*	500	77.7	98.6	80-120	0.0473	20	
Fluoride	56.0	2.50		50.0	3.90	104	80-120	0.0715	20	
o-Phosphate-P	257	2.50		250	ND	103	80-120	0.0778	20	
Sulfate	475	20.0		500	ND	95.0	80-120	0.0211	20	

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Coleman Oil & Gas P.O. Box 3337 Farmington NM, 87499		Project Name: Project Number: Project Manager:	 <b>Reported:</b> 25-Nov-15 12:05	
		Notes and 1	Definitions	
H2	Sample was analyzed after regula	atory hold-time exceeded for target a	inalyte.	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above	ve the reporting limit		
NR	Not Reported			
dry	Sample results reported on a dry wei	ght basis		

RPD Relative Percent Difference

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lient: ColeMAN OIL	46K	5 ph	<u> </u>	RUSH?		b Use Only	(1) (2)		An	alysis	and	Meth	lod		lab On
oject: finan 01 smpler: Mike HANSO		·····		- 1d 3d	P 5 I	lab\W0# .03 <i>W</i>	and the second se				the ion	1.5			Lab Number
hone: 505-330-2903		NICOM				b Number 06 = 000	28			300.0	``	Shpac			Lab Number
mail(s): <u>MAANSOH CCC</u> roject Manager: <u>MLLo HANS</u> e		<u>w 1207</u>	~	Page	of	1	8	v 802	418.	te by :	LOLL	3			
Sample ID		Sample Date	Sample Time	Matrix		ntainers YPE/Preservative	GRO/DRO by 8015	ВТЕХ by 8021	TPH by 418.1	Chloride by 300.0	1.1	FU3			
PINON OIH		11/13/15	3:30	Hz0	N	D					J				
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ampie Matrix: 5 - Soli, 5d - Solid, 5g - Skrdge, A - Aqueous,						Container Type					stic, I	ag - a	mber g	lass, v	VOA
*Samples requiring thermal preservation must be received Sample(s) dropped off efter hours to a secure drop of	and the second second	ney are sampled (	-	f Custody	an avg temp ab Notes/Bills		Cons	upsequ	sent di	IYA.					
Convirater	•h				L										
	tory			mpton, Ral 8749) Street, Suite 115, D	urango (C.4130)	Ph (SCS) 63 Ph (SCS) 63			_						ge 6 o



### **Analytical Report**

### **Report Summary**

Client: Coleman Oil & Gas Chain Of Custody Number: Samples Received: 11/16/2015 7:05:00AM Job Number: 05206-0001 Work Order: P511031 Project Name/Location: Pinon 02H

Date: 11/25/15

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

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Coleman Oil & Gas	Project Name:	Pinon 02H	
P.O. Box 3337	Project Number:	05206-0001	Reported:
Farmington NM, 87499	Project Manager:	Mike Hanson	25-Nov-15 12:04
L		·	

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Pinon 2H	P511031-01A	Aqueous	11/13/15	11/16/15	Poly 500mL

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Coleman Oil & Gas P.O. Box 3337	Project 1 Project 1	Pinon 05206					Reported:		
Farmington NM, 87499	-	Manager:	Mike	Hanson				25-Nov-15 12	:04
		Р	inon 2H						
······		P5110.	31-01 (Wa	ter)	<u></u>			<u> </u>	
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
pH @20.4°C	7.08		pH Units	1	1547032	11/20/15 14:31	11/20/15 14:35	150.1/4500H	
Electrical Conductivity	43000		umhos/cm	1	1547032	11/20/15 14:31	11/20/15 14:35	EPA 120.1	
Total Dissolved Solids	28800	10.0	mg/L	1	1547020	11/19/15	11/19/15	160.1/2540C	
Sodium Absorption Ratio	164		N/A	1	1548015	11/25/15	11/25/15	[CALC]	
Total Alkalinity as CaCO3	950	10.0	mg/L	l	1547021	11/19/15	11/20/15	Hach Method 8203	
Total Hardness as CaCO3	765	18.6	mg/L		[CALC]	11/20/15	11/24/15	[CALC]	
Bicarbonate as CaCO3	ND	10.0	mg/L	1	1547021	11/19/15	11/20/15	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1547021	11/19/15	11/20/15	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	ł	1547021	11/19/15	11/20/15	Hach Method 8203	
Nitrate-N	5.32	0.25	mg/L	1	1547013	11/18/15 09:00	11/18/15 14:35	EPA 300.0	н
Nitrite-N	3.04	0.25	mg/L	1	1547013	11/18/15 09:00	11/18/15 14:35	EPA 300.0	н
Chloride	15400	2.00	mg/L	1	1547013	11/18/15	11/19/15	EPA 300.0	
Fluoride	ND	0.25	mg/L	1	1547013	11/18/15	11/18/15	EPA 300.0	
o-Phosphate-P	6.77	0.25	mg/L	1	1547013	11/18/15 09:00	11/18/15 14:35	EPA 300.0	н
Sulfate	ND	2.00	mg/L	1	1547013	11/18/15	11/18/15	EPA 300.0	
Iron	23.1	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Calcium	226	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Magnesium	48.5	1.80	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Potassium	88.6	4.50	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	
Sodium	10400	18.0	mg/L	9	1547033	11/20/15	11/24/15	EPA 6010C	

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Coleman Oil & Gas P.O. Box 3337	Project Name: Project Number:			Pinon 02H 05206-0001					Report			
Farmington NM, 87499	Proje	Project Manager:							25-Nov-15 12			
	Catio	n/Anion A	nalysis	- Quality (	Control							
	En	virotech A	nalytic	al Labor	atory							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 1547013 - Anion Extraction EPA 30 Blank (1547013-BLK1)	<u></u>			Prenared &	- Analyzed	18-Nov-1	5					
Nitrate-N	ND	0.25	mg/L	Tieparea a		10 1101 12						
Nitrite-N	ND	0.25	*									
Chloride	ND	2.00										
Fjuoride	ND	0.25										
o-Phosphate-P	ND	0.25	•									
Sulfate	ND	2.00										
LCS (1547013-BS1)				Prepared &	Analyzed	: 18-Nov-1	5					
Nitrate-N	4.76	0.25	mg/L	5.00		95.2	<b>90-</b> 110					
Nitrite-N	5.13	0.25	•	5.00		103	90-110					
Chloride	48.6	2.00		50.0		97.1	90-110					
Fluoride	5.13	0.25		5.00		103	90-110					
o-Phosphate-P	25.6	0.25		25.0		102	90-110					
Sulfate	47.2	2.00	n	50.0		94.5	90-110					
Matrix Spike (1547013-MS1)	Sour	ce: P511 <u>0</u> 36-	01	Prepared &	k Analyzed							
Nitrate-N	48.2	2.50	mg/L	50.0	ND	96.4	80-120					
Nítrite-N	51.4	2.50		50.0	ND	103	80-120					
Chloride	571	20.0		500	77.7	98.6	80-120					
Fluoride	56.0	2.50		50.0	3.90	104	80-120					
o-Phosphate-P	257	2.50	"	250	ND	103	80-120					
Sulfate	475	20.0	"	500	ND	95.0	80-120					
Matrix Spike Dup (1547013-MSD1)		ce: P511036-		· · · · · · · · · · · · · · · · · · ·		: 18-Nov-1						
Nitrate-N	48.1	2.50	mg/L	50.0	ND	96.3	80-120	0.104	20			
Nitrite-N	51.5	2.50	*	50.0	ND	103	80-120	0.136	20			
Chloride	570	20.0	"	500	77.7	98.6	80-120	0.0473	20			
Fluoride	56.0	2.50		50.0	3.90	. 104	80-120	0.0715	20			
o-Phosphate-P	257	2.50	•	250	ND	103	80-120	0.0778	20			
Sulfate	475	20.0		500	ND	95.0	80-120	0.0211	20			

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P.O. Bo	x 3337	Project Name: Project Number: Project Manager:	Pinon 02H 05206-0001 Mike Hanson	<b>Reported:</b> 25-Nov-15 12:04
		Notes and 1	Definitions	
H2	Sample was analyzed after regulatory hold-time	e exceeded for target a	analyte.	· · · ·
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting	limit		

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Client: Coleman Dil +6A	s, Inc	-	RUSH?	La	b Use Only	din:		Ana	alysis	and	Meth	od	<del></del>	lab C	nly
Project: PINON 0.2H Sampler: MIKe HAMSON Phone: 505-330-2903 Email(s): Mhanson @ Cog fmn	·		1d 3d	<u>P.51</u> 054	ab WO#  03   b Number 206-000	GRO/DRO by 8015	021	8.1	Chloride by 300.0	5	)	(csh/4uh		Lab Number	Correct Conft/Prsrv (s) X/N
Project Manager: Mike HANSo	Sample Date	Sample	Pag		ntainers	- No	BTEX by 8021	TPH by 418.1	oride	L.	4	R		e)	U LUC
Sample ID	Sample Late	Time	Matrix	QTY - Vol/T	YPE/Preservative	ĕ		Ē	ō	7	Z	Z	_		S
finon 2H	1/13/2015	3:30	H20		No					7,					Ŷ
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			<u> </u>			╋	┢		-		-				
Relinguished by Signature) / Data Time ////////////////////////////////////	1 Lai	i by: (Signa M 301 i by: (Signa	73/h	Date   -  -15- Date	<u>7:05</u>	Rece	ived	on k	ce Y T2	/ N	ie Or		<u>, і</u> , і , і , і		
Sample Matria: S • Soil, Sd • Solid, Sg • Skidge, A • Aqueous, O • Other	ļ				Container Type:	/G Te							alass v	- 1004	
**Samples requiring thermal preservation must be received on ice the day t	hey are sampled o	r received p	acked in ice								9.0	nwer	0.030, V	104	
Sample(s) dropped off after hours to a secure drop off area.			f Custody								_				7
envirotech Analytical Laboratory			ungton, Mil 8740 1 Striet, Solle 115	. Ominge. (C dibei	Pb (5(5) 633 Ph (520) 330			_		·			منسم محمد بغو	age 6	