



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

04/17/2023

Well Name: RIVERBEND 12-13 FEDERAL COM	Well Location: T25S / R28E / SEC 1 / NWSW / 32.156005 / -104.045193	County or Parish/State: EDDY / NM
Well Number: 35H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM16104	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154597600S1	Well Status: Producing Gas Well	Operator: CIMAREX ENERGY COMPANY

Notice of Intent

Sundry ID: 2726011

Type of Submission: Notice of Intent

Type of Action: Produced Water Disposal

Date Sundry Submitted: 04/17/2023

Time Sundry Submitted: 12:58

Date proposed operation will begin: 03/09/2020

Procedure Description: Cimarex Energy Company respectfully requests approval for water disposal as follows: Name of Producing Formation: Wolfcamp (Purple Sage Wolfcamp, Gas) Barrels water produced per day: 500 Water is stored in 6 1000 barrel tanks before being pipelined to Solaris Water Midstream, LLC's Lobo 285 State SWD #1 (30-015-43979), located in the NENE of Section 22-T25S-R28E, Eddy County, New Mexico. A current water analysis is attached.

NOI Attachments

Procedure Description

Riverbend_12_13_Fed_Com_35H_water_analysis_20230417125827.pdf

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Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RUSTY KLEIN

Signed on: APR 17, 2023 12:58 PM

Name: CIMAREX ENERGY COMPANY

Title: Regulatory Analyst IV

Street Address: 600 N MRIENFIELD SUITE 600

City: MIDLAND

State: TX

Phone: (432) 620-1933

Email address: RUSTY.KLEIN@COTERRA.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: DEBORAH L MCKINNEY

BLM POC Title: Legal Instruments Examiner

BLM POC Phone: 5752345931

BLM POC Email Address: dmckinne@blm.gov

Disposition: Accepted

Disposition Date: 04/17/2023

Signature: Deborah McKinney



Complete Water Analysis/Chemical Residual

Customer: COTERRA ENERGY Equipment Description: RIVERBEND 12-13 FEDERAL COM 35H Collection Date: 02/07/2023
Geographic Region: Coterra New Mexico Sample Point: Separator Receive Date: 02/08/2023
Geographic Location: White City Sample ID: AV06060 Report Date: 02/16/2023
System Description: Production System Account Rep: william.kington@championx.com Location Code: 433678

Field Analysis

Analysis	Result	Analysis Method
Total Alkalinity (M-Alk as HCO ₃)	146.4 mg/L	Titration
Dissolved CO ₂	180 mg/L	Titration
Dissolved H ₂ S	0.0 mg/L	Titration
Pressure Surface	71 psi	
Temperature	75 °F	
pH of Water	6.6	Meter
Oil per Day	139.27205125 B/D	
Gas per Day	699.23680069 Mcf/D	
Water per Day	476.62154932 B/D	

Sample Analysis

Analysis	Result	Analysis Method
Specific Gravity	1.075	Densitometer
Ionic Strength	2.10 mol/L	Calculation
Total Dissolved Solids	114000 mg/L	Calculation
Calculated pH	6.60	Calculation
Calculated CO ₂ in the gas	1.48 %	Calculation

Cations - Analyzed By ICP

Iron	44.9 mg/L	Boron	89.8 mg/L	Silicon	13.0 mg/L
Manganese	1.34 mg/L	Lithium	24.3 mg/L	Aluminum	0.404 mg/L
Barium	3.18 mg/L	Copper	0.197 mg/L	Molybdenum	0.051 mg/L
Strontium	879 mg/L	Nickel	0.279 mg/L	Phosphorus	<0.200 mg/L
Calcium	4370 mg/L	Zinc	<0.100 mg/L	Measured Sodium	40000 mg/L
Magnesium	698 mg/L	Lead	0.731 mg/L		
Sodium	40000 mg/L	Cobalt	0.637 mg/L		
Potassium	716 mg/L	Chromium	0.093 mg/L		

Anions - Analyzed by IC

Chloride	66000 mg/L	Sulfate	230 mg/L
Bromide	528 mg/L		

PTB

	Anhydrite	Barite	Calcite	Celestite	Gypsum	Halite	Iron Carbonate	Iron Sulfide
50°	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00
75°	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00
100°	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00
125°	0.00	0.80	8.76	12.46	0.00	0.00	0.00	0.00
150°	0.00	0.14	16.06	26.97	0.00	0.00	2.19	0.00
175°	0.00	0.00	21.51	41.39	0.00	0.00	8.63	0.00
200°	0.00	0.00	25.66	54.95	0.00	0.00	13.38	0.00
225°	0.00	0.00	28.86	67.27	0.00	0.00	16.94	0.00
250°	0.00	0.00	31.36	78.19	0.00	0.00	19.61	0.00
275°	0.00	0.00	33.33	87.73	0.00	0.00	21.60	0.00
300°	0.00	0.00	34.87	96.02	0.00	0.00	23.08	0.00
325°	0.00	0.00	36.09	103.20	0.00	0.00	24.13	0.00
350°	0.00	0.00	37.04	109.42	0.00	0.00	24.82	0.00
375°	13.79	0.00	37.77	114.76	0.00	0.00	25.19	0.00
400°	30.58	0.00	38.34	119.26	0.00	0.00	25.23	0.00

SI

	Anhydrite	Barite	Calcite	Celestite	Gypsum	Halite	Iron Carbonate
50°	-1.56	0.76	-0.55	-0.05	-1.02	-1.35	-1.19
75°	-1.37	0.53	-0.27	-0.04	-1.03	-1.36	-0.82
100°	-1.19	0.33	-0.02	0.00	-1.02	-1.36	-0.46
125°	-1.02	0.17	0.20	0.05	-1.01	-1.40	-0.19
150°	-0.87	0.03	0.42	0.10	-1.00	-1.41	0.07
175°	-0.74	-0.08	0.62	0.16	-1.00	-1.42	0.30
200°	-0.61	-0.17	0.82	0.16	-1.01	-1.42	0.51
225°	-0.50	-0.24	1.00	0.30	-1.04	-1.42	0.69
250°	-0.39	-0.31	1.18	0.36	-1.08	-1.41	0.84
275°	-0.29	-0.36	1.36	0.43	-1.12	-1.41	0.96
300°	-0.20	-0.42	1.52	0.49	-1.14	-1.40	1.09
325°	-0.11	-0.47	1.68	0.56	-1.14	-1.39	1.17
350°	-0.03	-0.53	1.83	0.62	-1.09	-1.38	1.23
375°	0.06	-0.59	1.97	0.66	-0.97	-1.37	1.27
400°	0.14	-0.66	2.09	0.73	-0.75	-1.35	1.27

Chemical Residual

Analysis	Result	Analysis Method
Chemical	CORR11635	
Corrosion Residual	16.5 mg/L	Spectrophotometer

Comments

Scaling predictions calculated using Scale Soft Pitzer 2019

Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

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03/14/2023

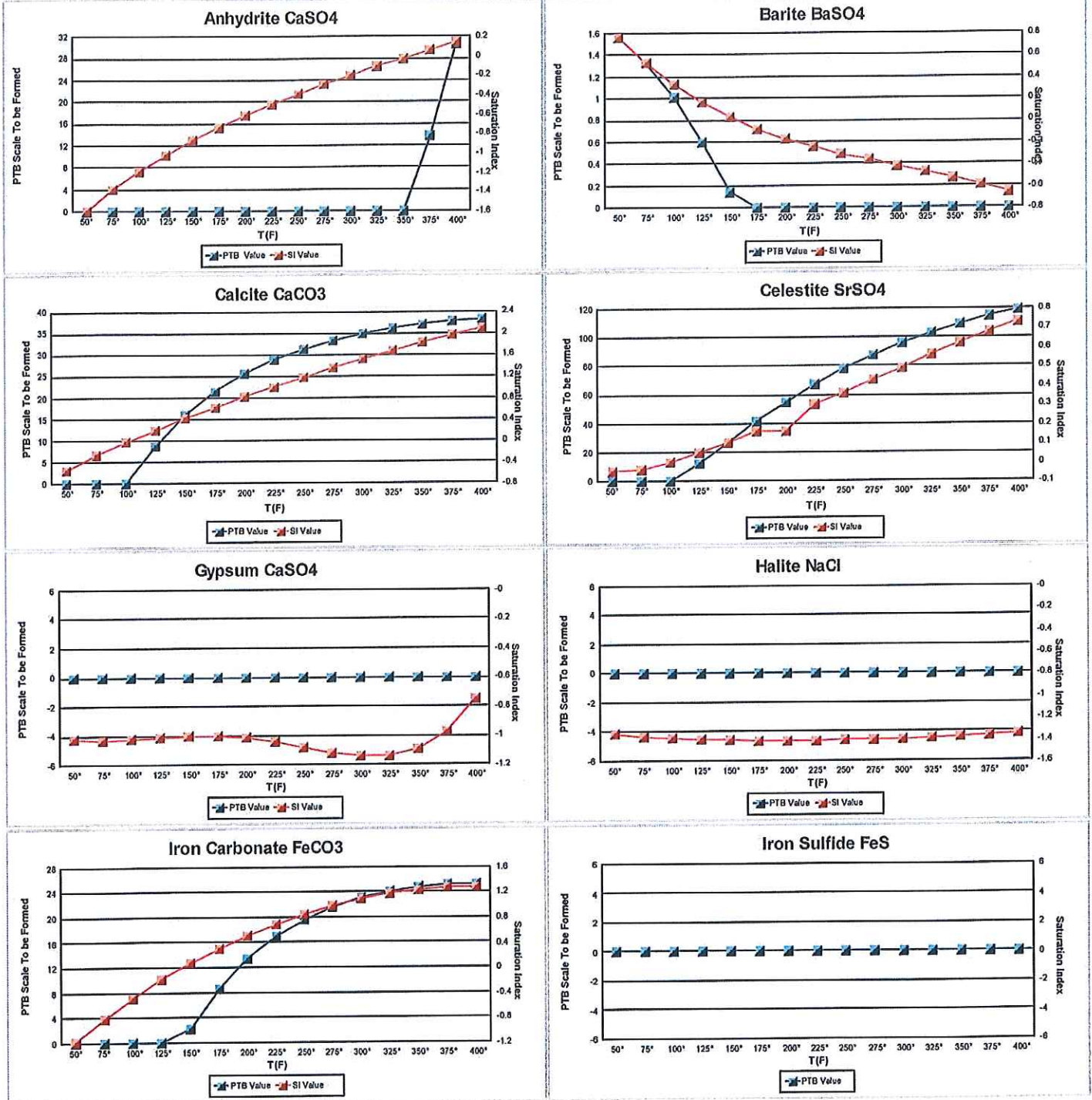


Complete Water Analysis/Chemical Residual

Customer: COTERRA ENERGY
Geographic Region: Coterra New Mexico
Geographic Location: White City
System Description: Production System

Equipment Description: RIVERBEND 12-13 FEDERAL COM 35H
Sample Point: Separator
Sample ID: AV05060
Account Rep: william.kington@championx.com

Collection Date: 02/07/2023
Receive Date: 02/08/2023
Report Date: 02/16/2023
Location Code: 433678



Scaling predictions calculated using Scale Soft Pitzer 2010

Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

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03/14/2023

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 208648

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 208648
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
dmcclosure	ACCEPTED FOR RECORD	11/8/2023