

Submit a Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-47947
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator GOODNIGHT MIDSTREAM PERMIAN, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 5910 N CENTRAL EXPRESSWAY, SUITE 850, DALLAS, TX 75206		7. Lease Name or Unit Agreement Name SOSA SA 17 SWD
4. Well Location Unit Letter N : _____ feet from the 470 line and S _____ feet from the 1815 line Section 17 Township 21S Range 36E NMPM County LEA		8. Well Number 2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3648'		9. OGRID Number 372311
		10. Pool name or Wildcat SWD; SAN ANDRES

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>		MIT REPORT & FORMATION FLUID ANALYSIS	
CLOSED-LOOP SYSTEM <input type="checkbox"/>		OTHER: <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

PER CASE 20721, ORDER R-21190, PLEASE FIND THE ATTACHED MIT AND WATER SAMPLE ANALYSIS.

Spud Date:

02/19/2021

Rig Release Date:

03/03/2021

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

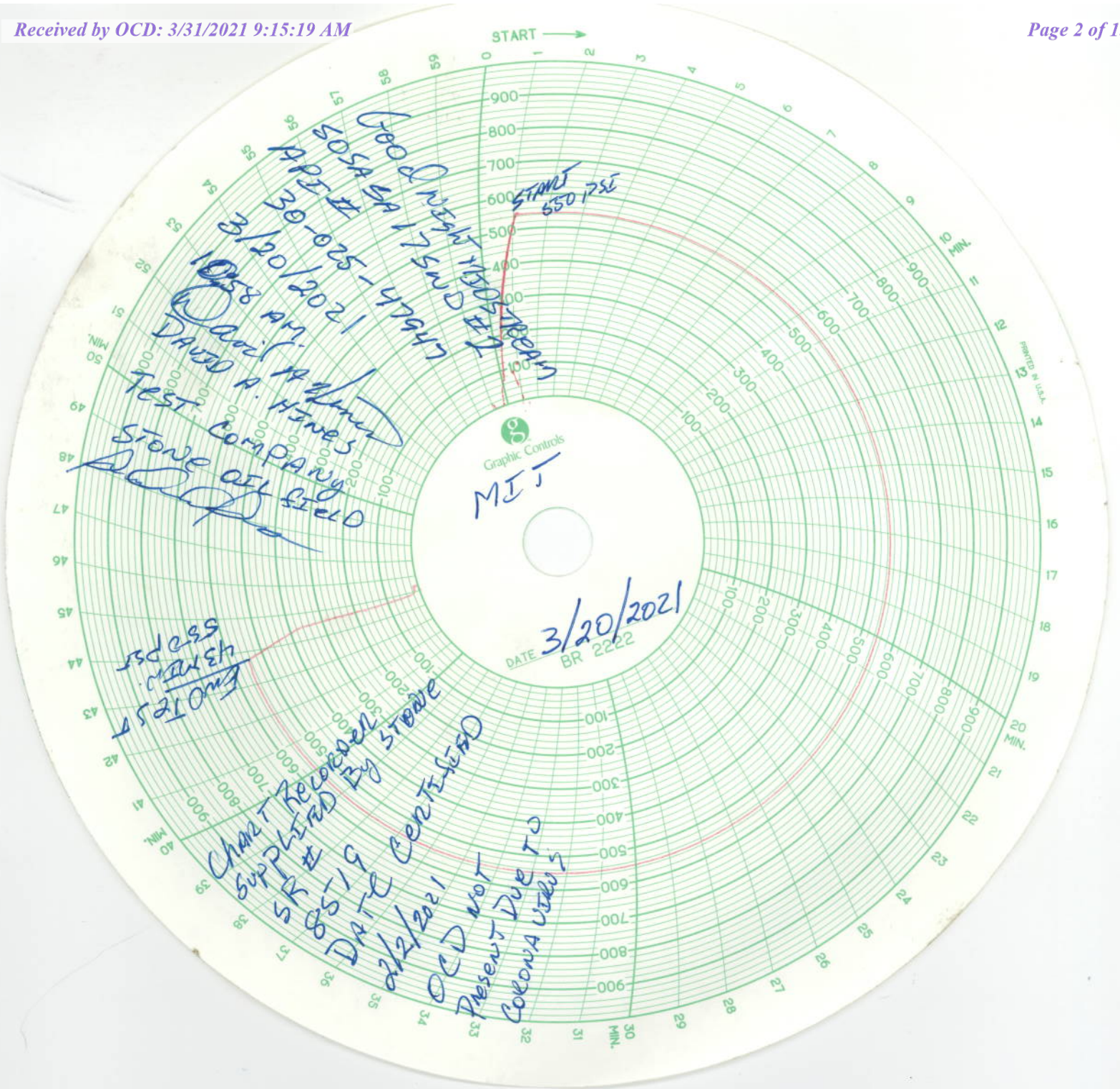
SIGNATURE  TITLE ENGINEER DATE 03/31/2021

Type or print name CHRIS J GADDY E-mail address: CGADDY@CAMBRIANMGMT.COM PHONE: 432-620-9181

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 30, 2021

ANDY RICKARD

CAMBRIAN MANAGEMENT, LTD

P.O. BOX 272

MIDLAND, TEXAS 79702

RE: SOSA SA 17 SWD #2

Enclosed are the results of analyses for samples received by the laboratory on 03/23/21 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CAMBRIAN MANAGEMENT, LTD
P.O. BOX 272
MIDLAND TEXAS, 79702

Project: SOSA SA 17 SWD #2
Project Number: NONE GIVEN
Project Manager: ANDY RICKARD
Fax To: (432) 570-0102

Reported:
30-Mar-21 08:59

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOSA SA 17 SWD	H210727-01	Water	23-Mar-21 06:30	23-Mar-21 09:15

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CAMBRIAN MANAGEMENT, LTD
P.O. BOX 272
MIDLAND TEXAS, 79702

Project: SOSA SA 17 SWD #2
Project Number: NONE GIVEN
Project Manager: ANDY RICKARD
Fax To: (432) 570-0102

Reported:
30-Mar-21 08:59

SOSA SA 17 SWD
H210727-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	915		5.00	mg/L	1	1030909	GM	24-Mar-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1030909	GM	24-Mar-21	310.1	
Chloride*	8900		4.00	mg/L	1	1031702	GM	23-Mar-21	4500-Cl-B	
Conductivity*	27900		1.00	umhos/cm @ 25°C	1	1032307	AC	23-Mar-21	120.1	
pH*	7.01		0.100	pH Units	1	1032307	AC	23-Mar-21	150.1	
Temperature °C	17.0			pH Units	1	1032307	AC	23-Mar-21	150.1	
Resistivity	0.359			Ohms/m	1	1032307	AC	23-Mar-21	120.1	
Specific Gravity @ 60° F	1.013		0.000	[blank]	1	1032308	AC	23-Mar-21	SM 2710F	
Sulfate*	2100		500	mg/L	50	1032309	GM	24-Mar-21	375.4	
TDS*	19000		5.00	mg/L	1	1032305	GM	24-Mar-21	160.1	
Alkalinity, Total*	750		4.00	mg/L	1	1030909	GM	24-Mar-21	310.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.148	0.071	1.00	mg/L	20	B210679	AES	29-Mar-21	EPA200.7	J
Calcium*	958		2.00	mg/L	20	B210679	AES	29-Mar-21	EPA200.7	
Iron*	39.0		1.00	mg/L	20	B210679	AES	29-Mar-21	EPA200.7	
Magnesium*	326		2.00	mg/L	20	B210679	AES	29-Mar-21	EPA200.7	
Potassium*	170		20.0	mg/L	20	B210679	AES	29-Mar-21	EPA200.7	
Sodium*	5380		20.0	mg/L	20	B210679	AES	29-Mar-21	EPA200.7	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CAMBRIAN MANAGEMENT, LTD
P.O. BOX 272
MIDLAND TEXAS, 79702

Project: SOSA SA 17 SWD #2
Project Number: NONE GIVEN
Project Manager: ANDY RICKARD
Fax To: (432) 570-0102

Reported:
30-Mar-21 08:59

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030909 - General Prep - Wet Chem**Blank (1030909-BLK1)**

Prepared & Analyzed: 09-Mar-21

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (1030909-BS1)

Prepared & Analyzed: 09-Mar-21

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity, Total	260	10.0	mg/L	250		104	80-120			

LCS Dup (1030909-BSD1)

Prepared & Analyzed: 09-Mar-21

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120	3.86	20	
Alkalinity, Total	270	10.0	mg/L	250		108	80-120	3.77	20	

Batch 1031702 - General Prep - Wet Chem**Blank (1031702-BLK1)**

Prepared & Analyzed: 17-Mar-21

Chloride	ND	4.00	mg/L							
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LCS (1031702-BS1)

Prepared & Analyzed: 17-Mar-21

Chloride	92.0	4.00	mg/L	100		92.0	80-120			
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LCS Dup (1031702-BSD1)

Prepared & Analyzed: 17-Mar-21

Chloride	92.0	4.00	mg/L	100		92.0	80-120	0.00	20	
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Batch 1032305 - Filtration**Blank (1032305-BLK1)**

Prepared: 23-Mar-21 Analyzed: 26-Mar-21

TDS	ND	5.00	mg/L							
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CAMBRIAN MANAGEMENT, LTD
P.O. BOX 272
MIDLAND TEXAS, 79702

Project: SOSA SA 17 SWD #2
Project Number: NONE GIVEN
Project Manager: ANDY RICKARD
Fax To: (432) 570-0102

Reported:
30-Mar-21 08:59

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1032305 - Filtration

LCS (1032305-BS1) Prepared: 23-Mar-21 Analyzed: 24-Mar-21

TDS	475		mg/L	500		95.0	80-120			
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Duplicate (1032305-DUP1) Source: H210718-01 Prepared: 23-Mar-21 Analyzed: 24-Mar-21

TDS	315	5.00	mg/L		371			16.3	20	
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Batch 1032307 - General Prep - Wet Chem

LCS (1032307-BS1) Prepared & Analyzed: 23-Mar-21

pH	7.07		pH Units	7.00		101	90-110			
Conductivity	52200		uS/cm	50000		104	80-120			

Duplicate (1032307-DUP1) Source: H210727-01 Prepared & Analyzed: 23-Mar-21

pH	7.04	0.100	pH Units		7.01			0.427	20	
Conductivity	28200	1.00	umhos/cm @ 25°C		27900			1.21	20	
Resistivity	0.354		Ohms/m		0.359			1.21	20	
Temperature °C	17.0		pH Units		17.0			0.00	200	

Batch 1032308 - General Prep - Wet Chem

Duplicate (1032308-DUP1) Source: H210727-01 Prepared & Analyzed: 23-Mar-21

Specific Gravity @ 60° F	1.006	0.000	[blank]		1.013			0.744	20	
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Batch 1032309 - General Prep - Wet Chem

Blank (1032309-BLK1) Prepared: 23-Mar-21 Analyzed: 24-Mar-21

Sulfate	ND	10.0	mg/L							
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CAMBRIAN MANAGEMENT, LTD
P.O. BOX 272
MIDLAND TEXAS, 79702

Project: SOSA SA 17 SWD #2
Project Number: NONE GIVEN
Project Manager: ANDY RICKARD
Fax To: (432) 570-0102

Reported:
30-Mar-21 08:59

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1032309 - General Prep - Wet Chem**LCS (1032309-BS1)**

Prepared: 23-Mar-21 Analyzed: 24-Mar-21

Sulfate	21.0	10.0	mg/L	20.0		105	80-120			
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LCS Dup (1032309-BSD1)

Prepared: 23-Mar-21 Analyzed: 24-Mar-21

Sulfate	20.4	10.0	mg/L	20.0		102	80-120	2.65	20	
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P.O. BOX 272
MIDLAND TEXAS, 79702

Project: SOSA SA 17 SWD #2
Project Number: NONE GIVEN
Project Manager: ANDY RICKARD
Fax To: (432) 570-0102

Reported:
30-Mar-21 08:59

Total Recoverable Metals by ICP (E200.7) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B210679 - Total Rec. 200.7/200.8/200.2**Blank (B210679-BLK1)**

Prepared & Analyzed: 29-Mar-21

Iron	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							

LCS (B210679-BS1)

Prepared & Analyzed: 29-Mar-21

Sodium	3.13	1.00	mg/L	3.24		96.6	85-115			
Potassium	7.83	1.00	mg/L	8.00		97.8	85-115			
Magnesium	20.0	0.100	mg/L	20.0		100	85-115			
Iron	3.88	0.050	mg/L	4.00		97.1	85-115			
Calcium	3.90	0.100	mg/L	4.00		97.4	85-115			
Barium	1.94	0.050	mg/L	2.00		96.9	85-115			

LCS Dup (B210679-BSD1)

Prepared & Analyzed: 29-Mar-21

Calcium	3.97	0.100	mg/L	4.00		99.3	85-115	1.88	20	
Magnesium	20.4	0.100	mg/L	20.0		102	85-115	1.86	20	
Barium	1.94	0.050	mg/L	2.00		97.1	85-115	0.111	20	
Potassium	7.95	1.00	mg/L	8.00		99.4	85-115	1.59	20	
Sodium	3.15	1.00	mg/L	3.24		97.1	85-115	0.590	20	
Iron	3.95	0.050	mg/L	4.00		98.8	85-115	1.83	20	

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

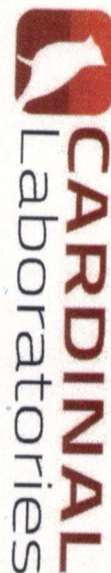
J	Estimated concentration. Analyte concentration between MDL and RL.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Push!

[illegible]

CARDINAL LABORATORIES **SCALE INDEX WATER ANALYSIS REPORT**

Company : CAMBRIAN MANAGEMENT
 Lease Name : SOSA SA 17 SWD #2
 Well Number : SOSA SA17 SWD (H210727-01)
 Location : EUNICE, NM

Date Sampled : 03/23/21
 Company Rep. : ANDY RICKARD

ANALYSIS

1. pH	7.01	
2. Specific Gravity @ 60/60 F.	1.0130	
3. CaCO3 Saturation Index @ 80 F.	+0.835	'Calcium Carbonate Scale Possible'
@ 140 F.	+1.685	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	ND	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

		/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	958.00	/	20.1	=	47.66
8. Magnesium (Mg++)	326.00	/	12.2	=	26.72
9. Sodium (Na+)	5,380	/	23.0	=	234.33
10. Barium (Ba++)	0.148	/	68.7	=	0.00

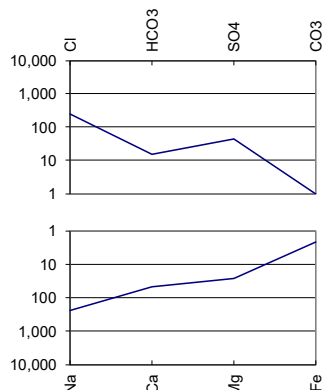
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO3=)	0	/	30.0	=	0.00
13. Bicarbonate (HCO3-)	915	/	61.1	=	14.98
14. Sulfate (SO4=)	2,100	/	48.8	=	43.03
15. Chloride (Cl-)	8,900	/	35.5	=	250.70

Other

16. Total Iron (Fe)	39.000	/	18.2	=	2.14
17. Total Dissolved Solids	19,000				
18. Total Hardness As CaCO3	3,735.0				
19. Calcium Sulfate Solubility @ 90 F.	3,705				
20. Resistivity (Measured)	0.359	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO3)2	81.04	X	14.98	=	1,214
CaSO4	68.07	X	32.69	=	2,225
CaCl2	55.50	X	0.00	=	0
Mg(HCO3)2	73.17	X	0.00	=	0
MgSO4	60.19	X	0.00	=	0
MgCl2	47.62	X	26.72	=	1,272
NaHCO3	84.00	X	0.00	=	0
NaSO4	71.03	X	10.35	=	735
NaCl	58.46	X	223.98	=	13,094

ND = Not Determined

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 22413

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 22413
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	8/26/2024