

State of New Mexico
Energy, Minerals and Natural ResourcesForm **Page 1 of 5**
Revised July 18, 2013

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

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. 30-025-33678
1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator MACK ENERGY CORPORATION		6. State Oil & Gas Lease No.
3. Address of Operator PO BOX 960, ARTESIA, NM 88211-0960		7. Lease Name or Unit Agreement Name McDonald SWD
4. Well Location Unit Letter <u>I</u> : <u>1334</u> feet from the <u>SOUTH</u> line and <u>987</u> feet from the <u>EAST</u> line Section <u>9</u> Township <u>15S</u> Range <u>32E</u> NMPM County <u>LEA</u>		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4303.7' GR		9. OGRID Number <u>013837</u>
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 ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: <u>Water Analysis</u>	<u>X</u>

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.

Please see the attached Water Analysis

Spud Date:

Rig Release Date:

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

SIGNATURE Jerry W Sherrell TITLE REGULATORY SUPERVISOR DATE 7/26/2024Type or print name JERRY W SHERRELL E-mail address: jerrys@mec.com PHONE: 575-748-1288**For State Use Only**

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Water Analysis Results

GeoKimika

2913 Carter Ave Midland, TX 79701

432.242.3192 - www.geokimika.com

Customer		Project Number		Sample ID	
Supreme Chemical Technologies		19624		56808	
Sample Type	SWD	Pad or Lease Name		Mack McDonald SWD #1	
Sample Point		Well Name			
Sample Date	24-Jul-2024 09:30:54	Stage #			
Anions		Cations			
Chloride - mg/L	35338.27	Sodium - mg/L		26852.00	
Sulfate - mg/L	6834.10	Potassium - mg/L		590.90	
Bicarbonate - mg/L	496.28	Magnesium - mg/L		216.80	
Carbonate - mg/L	0.00	Calcium - mg/L		931.65	
Total Alkalinity - as CaCO3	496.28	Strontium - mg/L		32.16	
Dissolved Gases		Barium - mg/L		8.43	
Dissolved CO2 - mg/L	20.00	Iron - mg/L		20.15	
Dissolved H2S - mg/L		Manganese - mg/L		12.33	
Dissolved Oxygen - mg/L		Phosphorous - mg/L		0.0000	
Residuals		Aluminum - mg/L			
Chlorine Residuals - mg/L		Silicon - mg/L		11.20	
PAA Residuals - mg/L		Zinc - mg/L			
<u>Other Parameters</u>					
Specific Gravity	1.0512	Density (ppg)	8.77	Turbidity - NTU	
Conductivity - us/cm	104550.00	pH	7.30	cATP - pg/mL	
TDS Measured -mg/L	64770.00	Temp. (F)	75.10	Suspended Solids - mg/L	
TDS Calculated - mg/L	71320.74	ORP - mV	261.00	LSI	1.34
Hardness calc. CaCO3	3310.70			TPH - ppm	
Comments					



Scaling Deposition Potential and Predictive Modeling

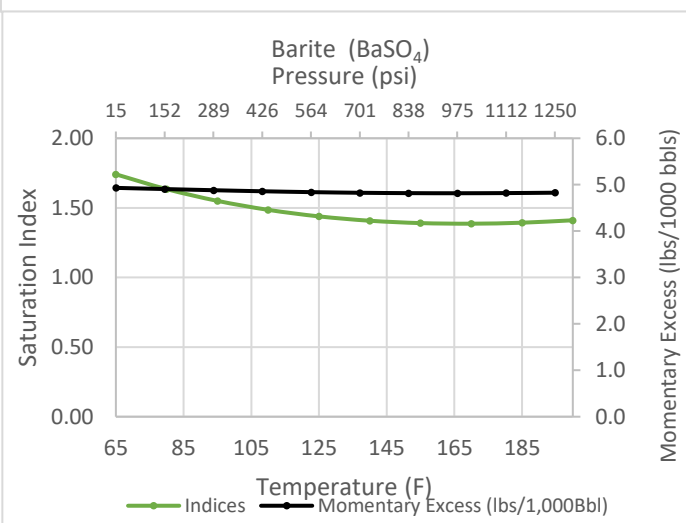
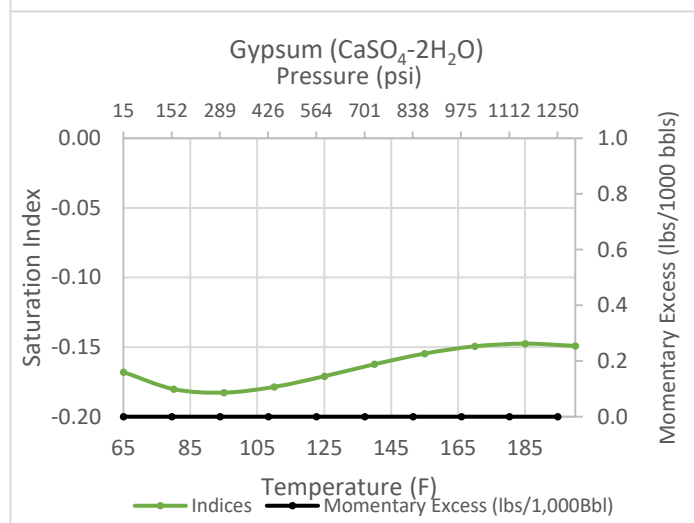
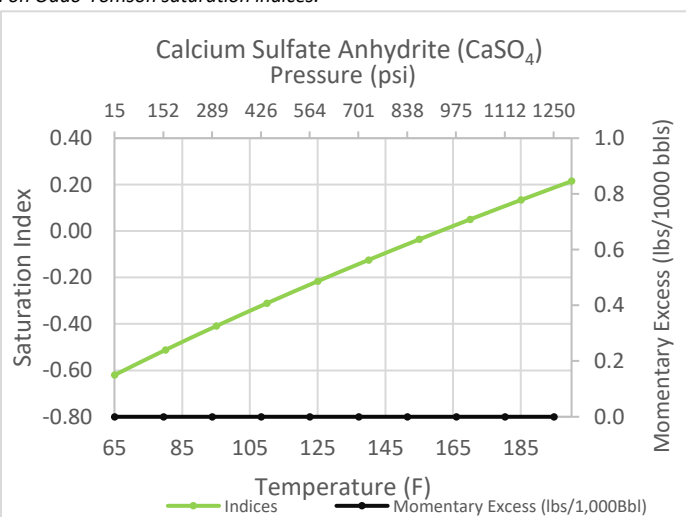
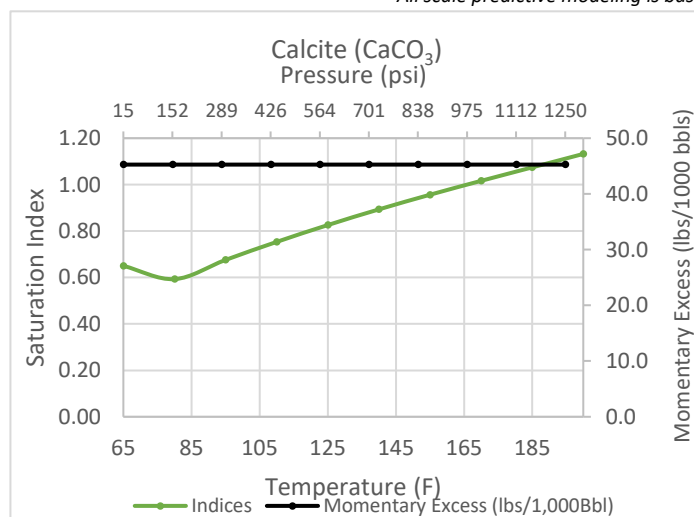
2913 Carter Ave Midland, TX 79701
432.242.3192 - www.geokimika.com

Sample ID: 56808
Project #: 19624
Customer: Supreme Chemical Technologies
Location: Mack McDonald SWD #1

Sample Point: 0
Sample Date: 7/24/2024
Report Date: 7/24/2024

Temp (°F)	Pressure (psi)	Calcite CaCO_3		Calcium Sulfate Anhydrite (CaSO_4)		Gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$)		Barite (BaSO_4)	
		Indices	Momentary Excess (lbs/1,000Bbl)	Indices	Momentary Excess (lbs/1,000Bbl)	Indices	Momentary Excess (lbs/1,000Bbl)	Indices	Momentary Excess (lbs/1,000Bbl)
65	15	0.650	45.262	-0.620	0.000	-0.168	0.000	1.741	4.931
80	152	0.593	45.262	-0.512	0.000	-0.180	0.000	1.635	4.906
95	289	0.676	45.262	-0.410	0.000	-0.183	0.000	1.550	4.881
110	427	0.753	45.262	-0.311	0.000	-0.179	0.000	1.486	4.858
125	564	0.826	45.262	-0.216	0.000	-0.171	0.000	1.439	4.839
140	701	0.893	45.262	-0.125	0.000	-0.162	0.000	1.408	4.826
155	838	0.956	45.262	-0.036	0.000	-0.155	0.000	1.391	4.818
170	976	1.016	45.262	0.050	0.000	-0.149	0.000	1.386	4.816
185	1113	1.074	45.262	0.133	0.000	-0.148	0.000	1.394	4.819
200	1250	1.132	45.262	0.215	0.000	-0.149	0.000	1.411	4.827

* All scale predictive modeling is based on Odde-Tomson saturation indices.





Scaling Deposition Potential and Predictive Modeling

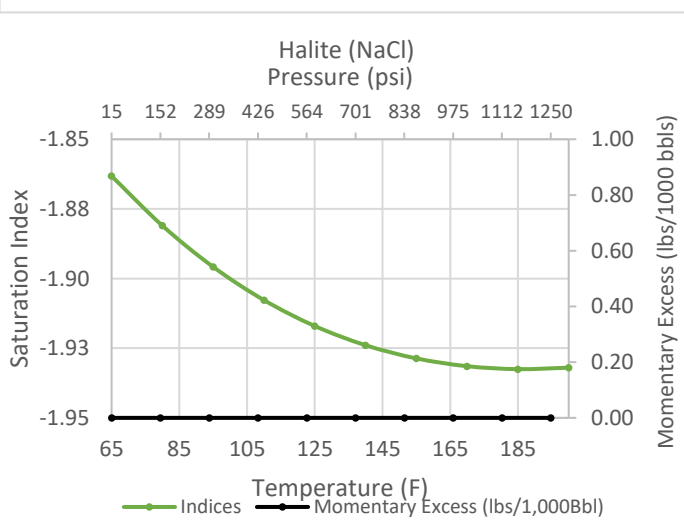
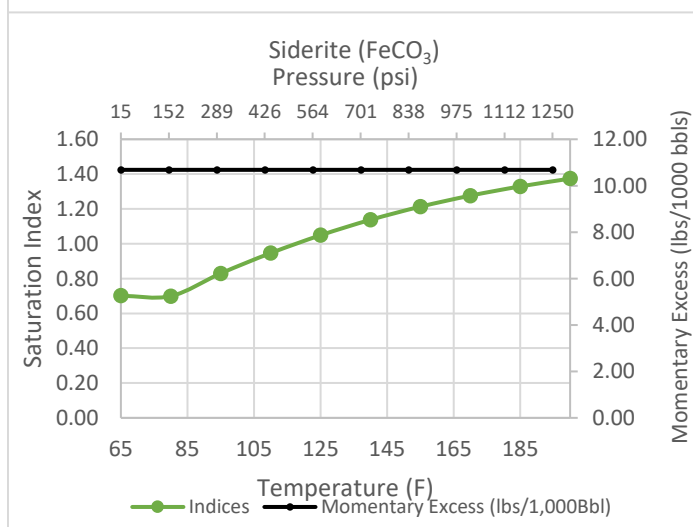
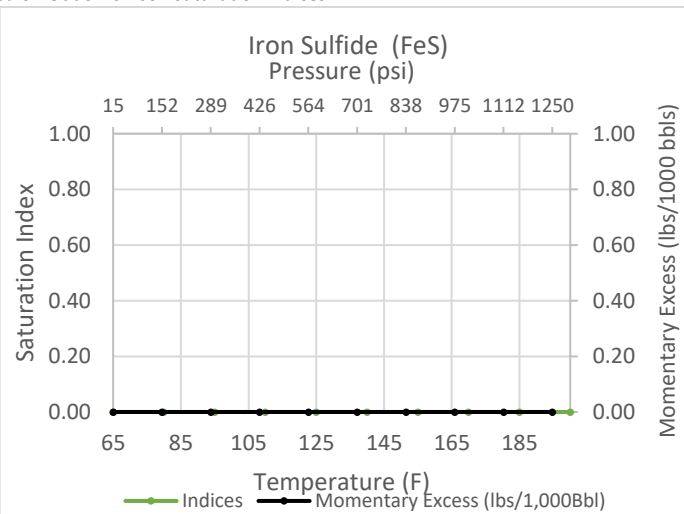
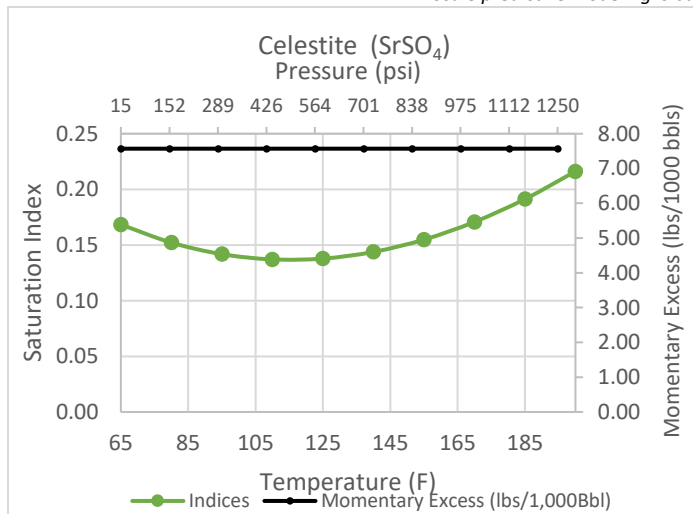
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Project #: 19624
Customer: Supreme Chemical T
Location: Mack McDonald SWD #1

Sample Point: 0
Sample Date: 7/24/2024
Report Date: 7/24/2024

Temp (°F)	Pressure (psi)	Celestite (SrSO ₄)		Iron Sulfide (FeS)		Siderite (FeCO ₃)		Halite (NaCl)	
		Indices	Momentary Excess (lbs/1,000Bbl)	Indices	Momentary Excess (lbs/1,000Bbl)	Indices	Momentary Excess (lbs/1,000Bbl)	Indices	Momentary Excess (lbs/1,000Bbl)
65	15	0.168	7.570	0.000	0.000	0.701	10.683	-1.863	0.000
80	152	0.152	7.570	0.000	0.000	0.699	10.683	-1.881	0.000
95	289	0.142	7.570	0.000	0.000	0.830	10.683	-1.896	0.000
110	427	0.137	7.570	0.000	0.000	0.946	10.683	-1.908	0.000
125	564	0.138	7.570	0.000	0.000	1.049	10.683	-1.917	0.000
140	701	0.144	7.570	0.000	0.000	1.137	10.683	-1.924	0.000
155	838	0.155	7.570	0.000	0.000	1.213	10.683	-1.929	0.000
170	976	0.171	7.570	0.000	0.000	1.276	10.683	-1.931	0.000
185	1113	0.191	7.570	0.000	0.000	1.329	10.683	-1.933	0.000
200	1250	0.216	7.570	0.000	0.000	1.374	10.683	-1.932	0.000

* All scale predictive modeling is based on Odde-Tomson saturation indices.



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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 367627

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 367627
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	8/1/2024