

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS2002452136
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Wapiti Operating, LLC	OGRID: 328741
Contact Name: Randy L. Madison	Contact Telephone: 575-445-6706
Contact email: rmadison@wapitienergy.com	Incident # (assigned by OCD) NCS2002452136
Contact mailing address: P.O. Box 190, 309 Silver St., Raton, NM 87740	

Location of Release Source

Latitude: 36.840578

Longitude: 105.13255

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: D-81 & D-82 Lateral	Site Type: Flow Line
Date Release Discovered: 7/3/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	15	30N	18E	Colfax

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Vermejo Park Ranch)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7 Barrels	Volume Recovered (bbls) 0 Barrels
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release of produced water was due to external corrosion on a 2" vent line underground.



State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: The line was isolated and repaired. There was no impact to the area due to the quality of the water. See attached water analysis. There were no material removed the water dissipated into the ground and evaporated. What did spill was contained in the borrow ditch. There were no free material to recover due to evaporation and dissipation. I am submitting this as an initial notification and a request to close this report.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Randy L. Madison</u> Signature: <u></u> email: <u>rmadison@atlasenergy.com</u>	Title: <u>HSE Specialist</u> Date: <u>7/15/19</u> Telephone: <u>575-445-6706</u>
<u>OCD Only</u> Received by: <u></u> Date: <u>1/24/2020</u>	

Water Analysis Report by Baker Petrolite

Company:	EL PASO E & P	Sales RDT:	44625
Region:	ROCKY MOUNTAINS	Account Manager:	TY CLINESMITH (575) 447-0621
Area:	RATON, NM	Sample #:	51012
Lease/Platform:	VERMEJO PARK RANCH 'D'	Analysis ID #:	119244
Entity (or well #):	81	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 51012 @ 75 °F							
Sampling Date: 03/30/12 Analysis Date: 04/18/12 Analyst: STACEY SMITH TDS (mg/l or g/m3): 4734 Density (g/cm3, tonne/m3): 1.004 Anion/Cation Ratio: 0.9999998 Carbon Dioxide: Oxygen: Comments:		Anions		mg/l	meq/l	Cations		mg/l	meq/l
		Chloride:	2245.0	63.32	Sodium:	1593.0	69.29		
		Bicarbonate:	755.0	12.37	Magnesium:	10.0	0.82		
		Carbonate:	0.0	0.	Calcium:	103.0	5.14		
		Sulfate:	4.0	0.08	Strontium:	13.0	0.3		
		Phosphate:			Barium:	5.0	0.07		
		Borate:			Iron:	0.4	0.01		
		Silicate:			Potassium:	5.5	0.14		
					Aluminum:				
					Chromium:				
			Copper:						
			Lead:						
			Manganese:	0.050	0.				
			Nickel:						
						</			

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.32	43.61	-3.27	0.00	-3.34	0.00	-2.41	0.00	0.27	0.70	0.05
100	0	1.35	48.84	-3.28	0.00	-3.28	0.00	-2.39	0.00	0.13	0.35	0.09
120	0	1.38	54.07	-3.28	0.00	-3.20	0.00	-2.36	0.00	0.01	0.00	0.14
140	0	1.42	59.65	-3.26	0.00	-3.10	0.00	-2.32	0.00	-0.08	0.00	0.21

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

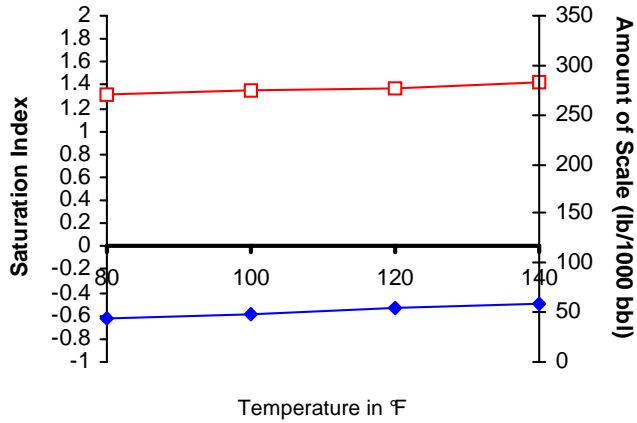
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

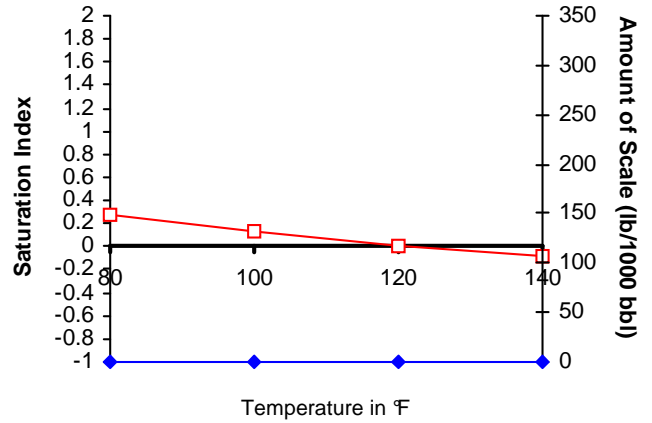
Scale Predictions from Baker Petrolite

Analysis of Sample 51012 @ 75 °F for EL PASO E & P, 04/18/12

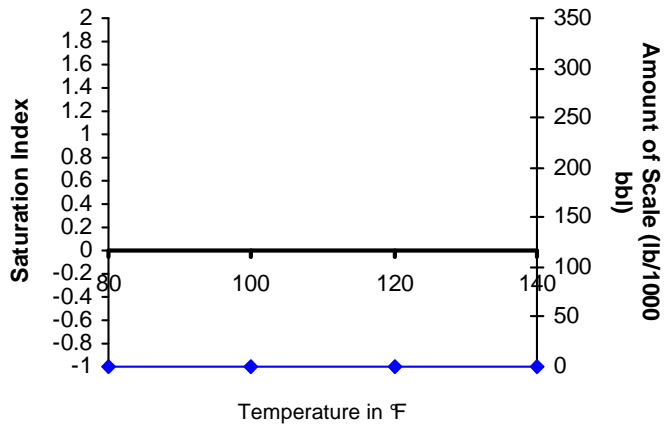
Calcite - CaCO_3



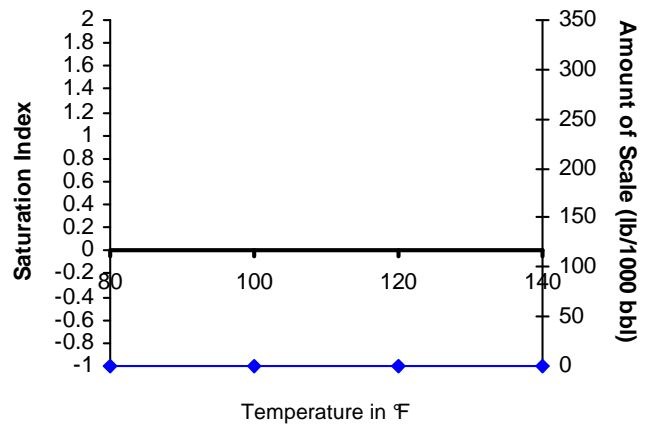
Barite - BaSO_4



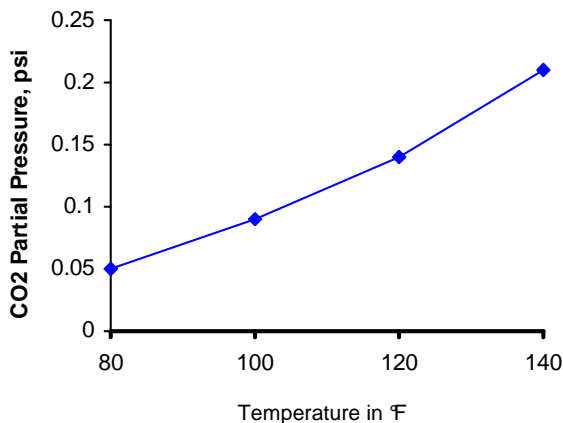
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



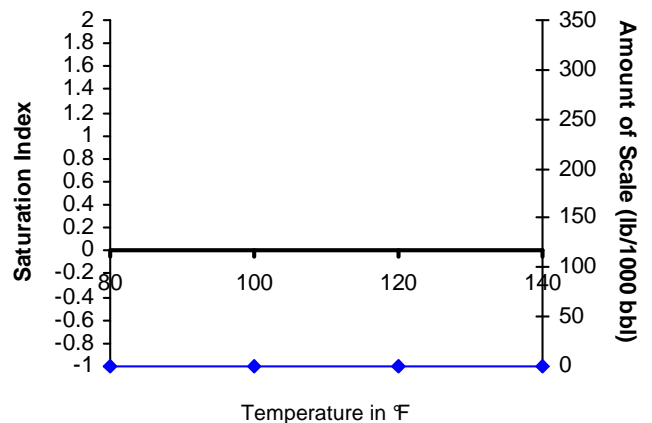
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



Water Analysis Report by Baker Petrolite

Company:	EL PASO E & P	Sales RDT:	44625
Region:	ROCKY MOUNTAINS	Account Manager:	TY CLINESMITH (575) 447-0621
Area:	RATON, NM	Sample #:	50962
Lease/Platform:	VERMEJO PARK RANCH 'D'	Analysis ID #:	119153
Entity (or well #):	82	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 50962 @ 75 F					
Sampling Date:	03/30/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	04/14/12	Chloride:	2540.0	71.64	Sodium:	1774.1	77.17
Analyst:	STACEY SMITH	Bicarbonate:	611.0	10.01	Magnesium:	15.0	1.23
TDS (mg/l or g/m3):	5025.5	Carbonate:	0.0	0.	Calcium:	53.0	2.64
Density (g/cm3, tonne/m3):	1.004	Sulfate:	3.0	0.06	Strontium:	14.0	0.32
Anion/Cation Ratio:	0.9999997	Phosphate:			Barium:	5.5	0.08
Carbon Dioxide:		Borate:			Iron:	1.5	0.05
Oxygen:		Silicate:			Potassium:	8.0	0.2
Comments:		Hydrogen Sulfide:			Aluminum:		
		pH at time of sampling:			Chromium:		
		pH at time of analysis:		8.03	Copper:		
		pH used in Calculation:		8.03	Lead:		
					Manganese:	0.400	0.01
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.73	16.39	-3.68	0.00	-3.75	0.00	-2.50	0.00	0.19	0.70	0.07
100	0	0.78	19.18	-3.69	0.00	-3.69	0.00	-2.48	0.00	0.05	0.00	0.11
120	0	0.84	22.67	-3.68	0.00	-3.61	0.00	-2.45	0.00	-0.07	0.00	0.17
140	0	0.90	26.16	-3.67	0.00	-3.50	0.00	-2.41	0.00	-0.17	0.00	0.25

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

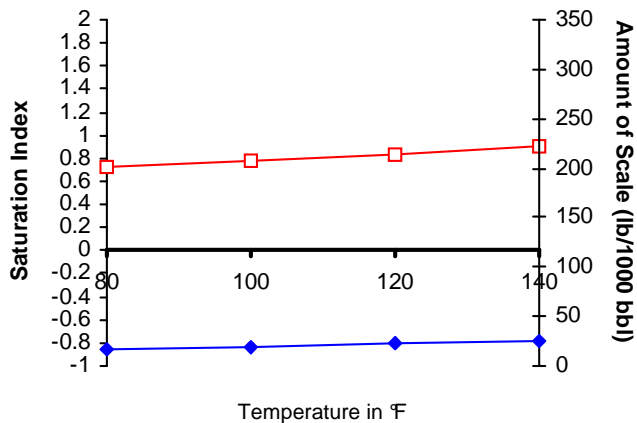
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

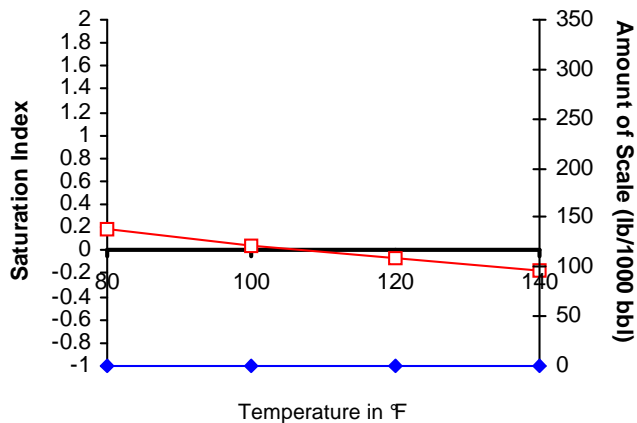
Scale Predictions from Baker Petrolite

Analysis of Sample 50962 @ 75 °F for EL PASO E & P, 04/14/12

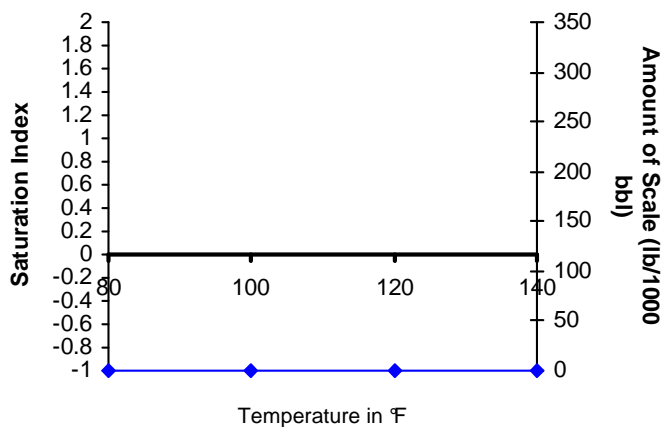
Calcite - CaCO_3



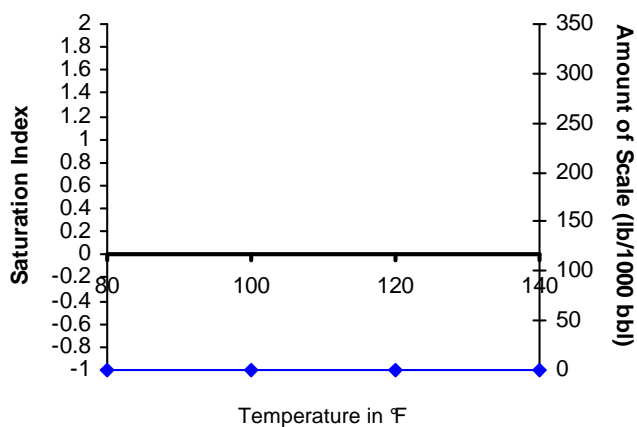
Barite - BaSO_4



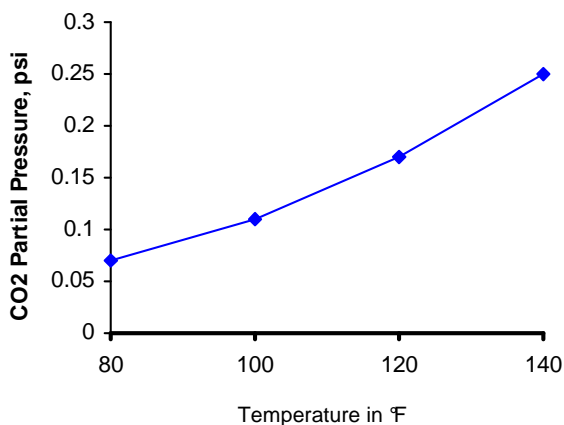
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4

