

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N.M. Oil Cons. Division
1625 N. French Dr.
HOBBS, NM 88240

FORM APPROVED
OMB No. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	8. Well Name and No. BOLA 7 FEDERAL #2
2. Name of Operator Harvey E. Yates Company	9. API Well No. 30-025-35381
3. Address P.O. Box 1933, Roswell, NM 88202	10. Field and Pool, or Exploratory Area YOUNG BONE SPRINGS NORTH
3b. Telephone No. (include area code) (505)623-6601	11. County or Parish, State LEA COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 660' FEL UNIT A, SEC 7, T18S, R32E	

12 CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (start/resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☐ Other _____ |
| ☐ Change Plans | ☐ Plug & Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☒ Water Disposal | |

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

1. Formation: Bone Spring
2. BWPD: 8
3. Water Analysis: See Attached
4. Lease Storage: Stock tanks.
5. Water transported by truck to disposal.
6. Operator: I & W Inc.
PO Box 98
Loco Hills, NM 88255

to disposal well:

Walter Solt State SWD #1
Sec 5, T18S, R28E
Eddy County, NM

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Jen Atkinson

Title

Prod. Analyst

Date

10-Mar-03

Approved by

APPROVED

(ORIG. SGD.) DAVID R. GLASS

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

DAVID R. GLASS
PETROLEUM ENGINEER

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

GWV

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(915) 495-7240

Water Analysis Report by Baker Petrolite

Company:	HEYCO	Sales RDT:	33517
Region:	PERMIAN BASIN	Account Manager:	CURRY PRUIT (505) 910-9388
Area:	HOBBS, NM	Sample #:	211031
Lease/Platform:	BOLA 7 FEDERAL	Analysis ID #:	32288
Entity (or well #):	2	Analysis Cost:	\$40.00
Formation:	UNKNOWN		
Sample Point:	HEATER TREATER		

Summary		Analysis of Sample 211031 @ 75 °F					
Sampling Date:	3/10/03	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	3/14/03	Chloride:	126968.0	3581.3	Sodium:	63620.4	2767.33
Analyst:	SHEILA HERNANDEZ	Bicarbonate:	48.0	0.79	Magnesium:	2204.0	181.31
TDS (mg/l or g/m3):	207510.7	Carbonate:	0.0	0.	Calcium:	12301.0	613.82
Density (g/cm3, tonne/m3):	1.144	Sulfate:	867.0	18.05	Strontium:	336.0	7.67
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.3	0.
		Borate:			Iron:	18.0	0.65
		Silicate:			Potassium:	1148.0	29.36
Carbon Dioxide:	260 PPM	Hydrogen Sulfide:		<5 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7	Lead:		
					Manganese:		
					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	0.47	1.43	-0.10	0.00	-0.07	0.00	-0.02	0.00	0.03	0.00	0.03
100	0	0.49	1.72	-0.17	0.00	-0.07	0.00	-0.04	0.00	-0.16	0.00	0.04
120	0	0.50	2.30	-0.23	0.00	-0.05	0.00	-0.05	0.00	-0.33	0.00	0.06
140	0	0.52	2.58	-0.28	0.00	-0.01	0.00	-0.05	0.00	-0.48	0.00	0.07

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

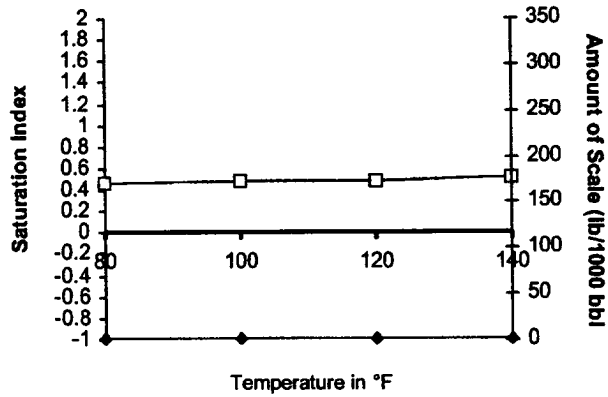
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

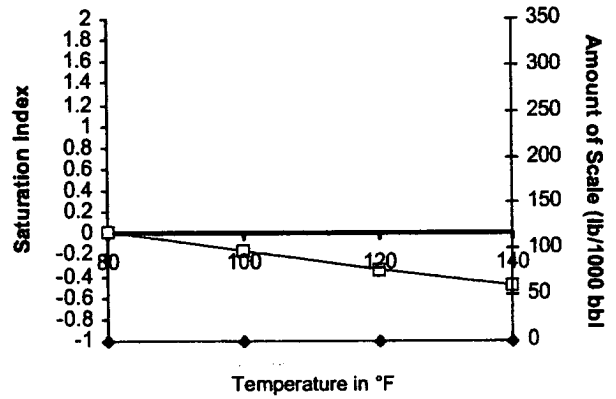
Scale Predictions from Baker Petrolite

Analysis of Sample 211031 @ 75 °F for HEYCO, 3/14/03

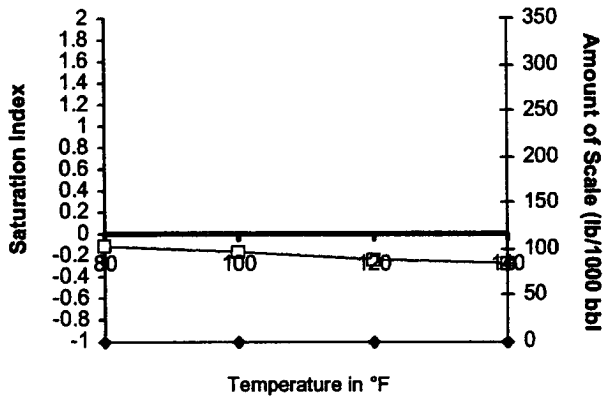
Calcite - CaCO_3



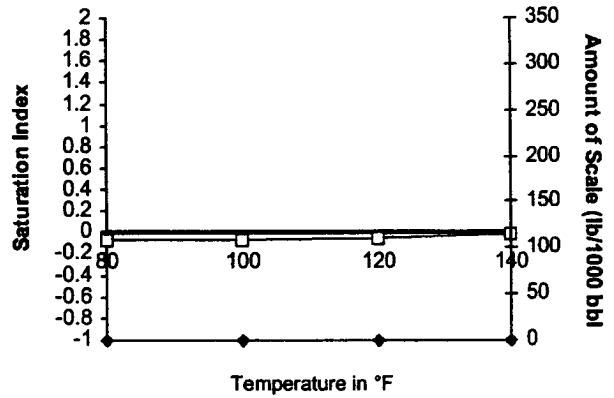
Barite - BaSO_4



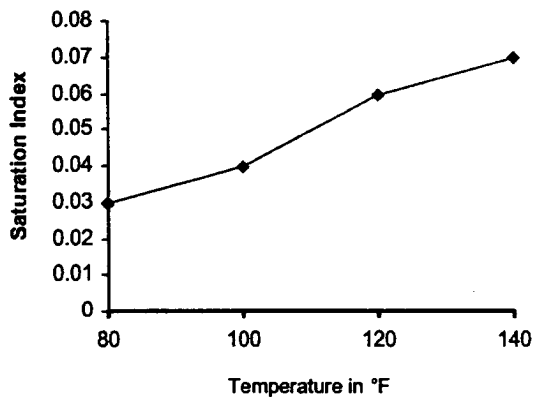
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4

