## UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

FORM APPROVED OMDB No. 1004-0135

NAP 2003

Expires: November 30, 2000

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-einter an RECEIVED

١	NMLC062052
•	Indian, Allottee or Tribe Name

30BMII IN TRIP	PLICATE - Other instr				
Type of Well		-2,	21110163	8. Well Name and No.	
☑ Oil Well ☐ Gas Well	9. API Well No.	ON 11 FEDERAL #			
Name of Operator				9. API Well No.	
arvey E. Yates Company				30-4	015-26166-00-S1
Address		3b. Telephone No. finclude area code	:)	10. Field and Pool, or I	Exploratory Area
O. Box 1933, Roswell, NM	88202	(505)623-6601			TAMANO
• • • • • • • •		EL UT.A		11. County or Parish, S	
EC 11, T18S, R31E, NENE TI			TICE, REPORT,	EDI	DY COUNTY, NM
EC 11, T18S, R31E, NENE TI	RACT 8 990 FNL 760 F		TICE, REPORT,	EDI OR OTHER DA	DY COUNTY, NM
CHECK APPROPE TYPE OF SUBMISSION	RACT 8 990 FNL 760 F			EDI OR OTHER DA	DY COUNTY, NM
CHECK APPROPE  TYPE OF SUBMISSION	RACT 8 990 FNL 760 F	CATE NATURE OF NO	TYPE OF ACT	EDI OR OTHER DA	DY COUNTY, NM
CHECK APPROPE  TYPE OF SUBMISSION  Notice of Intent	RACT 8 990 FNL 760 F	CATE NATURE OF NO	TYPE OF ACTI	EDI OR OTHER DA	OY COUNTY, NM  ATA  Water Shut-Off
CHECK APPROPE  TYPE OF SUBMISSION  Notice of Intent  Subsequent Report	RACT 8 990 FNL 760 FI RIATE BOX(ES) TO INDI Acidize Acidize Alter Casing Casing Repair Change Plans	Deepen  Fracture Treat	TYPE OF ACTI	EDI OR OTHER DA ION tart/resume)	OY COUNTY, NM  ATA  Water Shut-Off Well Integrity
	RACT 8 990 FNL 760 FI RIATE BOX(ES) TO INDI Acidize Acidize Acidize Casing Repair	Deepen Fracture Treat New Construction	TYPE OF ACT	EDI OR OTHER DA ION tart/resume)	OY COUNTY, NM  ATA  Water Shut-Off Well Integrity

of the involved operations. If the operation results in a multiple completion or recompletion 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: 2

3. Water Analysis: See Attached 4. Lease Storage: Stock tanks.

5. Water transported by truck to disposal.

6. Operator:

I & W Inc.

to disposal well:

Walter Solt State SWD #1

PO Box 98

Loco Hills, NM 88255

Sec 5, T18S, R28E Eddy County, NM

Title	Prod. Analyst				
Date	21-Mar-03				
SPACE FOR FEDERAL OF	R STATE OFFICE USE				
	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 subjec lease which would entitle the applicant to conduct operations thereon.					
	Date  SPACE FOR FEDERAL OF	Date 21-Mar-03  SPACE FOR FEDERAL OR STATE OFFICE USE  Title	Date 21-Mar-03  SPACE FOR FEDERAL OR STATE OFFICE USE  Title Date		

North Permian Basin Region P.O. Box 740

Sundown, TX 79372-0740

(806) 229-8121

Lab Team Leader - Sheila Hemandez

(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 #:

211089

Lease/Platform:

**HUDSON 11 FEDERAL** 

Analysis ID #:

27985

Entity (or well #):

**Analysis Cost** 

\$40.00

Formation:

UNKNOWN

Sample Point:

WELLHEAD

Summary		Analysis of Sample 211089 @ 75 °F							
Sampling Date: 8	/9/02 Anions	mg/l	meq/l	Cations	mg/l	meq/l			
Analysis Date: 8/	15/02 Chloride:	126894.0	3579.22	Sodium:	64920.6	2823.89			
Analyst: SHEILA HERNAN	DEZ Bicarbonate:	61.0	1.	Magnesium:	2358.0	193.98			
FDS (mm/l = mm2): 200:	Carbonate:	0.0	0.	Calcium:	10698.0	533.83			
	Sulfate	1217.0	25.34	Strontium:	390.0	8.9			
Density (g/cm3, tonne/m3):	Phosphate:			Barium:	8.0	0.01			
Anion/Cation Ratio:	Borate:			Iron:	45.0	1.63			
	Silicate:			Potassium:	1694.0	43.32			
				Aluminum:					
Carbon Dioxide: 110 PP	M Hydrogen Sulfide	e:	75 PPM	Chromium:					
Oxygen:	pH at time of san	anling:	6.5	Соррег.					
Comments:	l '		0.5	Lead:					
	pH at time of ana	alysis:		Manganese:					
	pH used in Cal	culation:	6.5	Nickel:					

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temn	Gauge Press. psi	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> 0		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
°۶		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.05	0.29	0.01	13.74	0.04	42.95	0.21	78.45	0.63	0.29	0.12
100	0	0.12	0.86	-0.06	0.00	0.03	34.93	0.19	71.00	0.43	0.29	0.15
120	0	0.19	1.43	-0.12	0.00	0.05	54.97	0.18	67.28	0.25	0.29	0.18
140	0	0.26	2.00	-0.18	0.00	0.09	96.77	0.18	66.99	0.10	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 211089 @ 75 °F for HEYCO, 8/15/02

