Form 3160-5 (AUGUST 1999)

UNITED STATES

N.M. Oll Cons. Division

FORM APPROVED OMB No. 1004-0135

DEPARTMENT OF THE INTERIOR 625 N. French Dr. BUREAU OF LAND MANAGEMENT NAME AND ASSAULT NAME ASSAULT NAME AND ASSAULT NAME AS

Expires: November 30, 2000

SUNDR	Y NOTICES AND REP	MODDS, NI	W 8824U	5. Lease Serial No.		
Do not use t	NMNM-18232 6. If Indian, Allottee or Tribe Name					
abandoned w	. a museu, Aliottee or]	I IIOO IVAIIIO				
		by ter each proposals.	·	7 881 1 61 1		
SUBMIT IN TRIP	7. If Unit or CA, Agreement, Name and/or No.					
1. Type of Well				8. Well Name and No.		
Oil Well Gas Well	Other			FEDERAL AM #1		
2. Name of Operator				9. API Well No.		
Harvey E. Yates Company				3	0-025-29087	
Address 3b. Telephone No. (Include area code)			2)	10. Field and Pool, or Exploratory Area		
P.O. Box 1933, Roswell, NM	Roswell, NM 88202 (505)623-6601			YOUNG BONE SPRINGS NORTH		
4. Location of Well (Footage, Sec., T., R., M., o. 1980' FNL & 1980' FWL	r Survey Description)			11. County or Parish, Sta		
UNIT F, SEC 8, T18S, R32E CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTIC			7.05 0500	LEA COUNTY, NM		
	INTE BOX(ES) TO INL	DICATE NATURE OF NO	TICE, REPORT,	OR OTHER DA	TA	
TYPE OF SUBMISSION			TYPE OF ACTI	ION		
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Deepen ☐ Production (start/resume) [☐ Water Shut-Off	
[7] Subsequent B	After Casing	☐ Fracture Treat	Reclamation	•	☐ Well Integrity	
☑ Subsequent Report	Casing Repair	☐ New Construction	☐ Recomplete		Other	
☐ Final Abandonment Notice	Change Plans	Plug & Abandon	☐ Temporarily A	bandon		
	Convert to Injection	on 🔲 Plug Back 🗹 Water Disp		al		
	ck tanks. y truck to disposal. / Inc. Box 98 Hills, NM 88255	to disposal well:	Walter Solt Sec 5, T18 Eddy Coun	s, R28E ty, NM	APR 1 0 2003 GRY GOURLEY TROLEUM ENGINEER	
14. I hereby certify that the foregoing is t	true and correct	Sysoser artici				
Jen Attinson		Title	Prod. Anal	yst		
Separate Alk		Date	10-Mar-03			
Approved by		FOR FEDERAL OR STATE (OFFICE USE			
	THIS SPACE	E FOR FEDERAL OR STATE (OFFICE USE	Date		
onditions of approval, if any are attached A		E FOR FEDERAL OR STATE (Date		
Conditions of approval, if any, are attached. Approversity that the applicant holds legal or equitable title	ral of this notice does not warrant or	E FOR FEDERAL OR STATE (Date		
Conditions of approval, if any, are attached. Approverify that the applicant holds legal or equitable title which would entitle the applicant to conduct operating the 18 U.S.C. Section 1001, and Title 43 U.S.C. States any false, fictitious or frandulent statements of	ral of this notice does not warrant or e to those rights in the subjec lease ons thereon.		Title Office			

Permian Treating WATER ANALYSIS REPORT

SAMPLE

Oil Co. : HarveyE. Yates

Sample Loc. :

Lease : Red NAM W

Date Analyzed: 06-July-2000 Date Sampled: 30-June-2000

Lab No. : G:\ANALYSES\Jul0600.001

ANALYSIS

1. pH 5.24	:0			
1. pH 5.24 2. Specific Gravity 60/60 F. 1.11 3. CaCO ₃ Saturation Index @ 80 F @ 140 F. +	0.766			
© 140 F. + Dissolved Gasses	0.194 MG/L	EQ. WT.	*MEQ/L	
4. Hydrogen Sulfide 5. Carbon Dioxide Not D 6. Dissolved Oxygen Not D	0 etermined etermined			
Cations				
7. Calcium (Ca++) 8. Magnesium (Mg++) 9. Sodium (Na+) (Calculated) 10. Barium (Ba++) Not D	10,319 / 2,444 / 49,359 / etermined	20.1 = 12.2 = 23.0 =	513.3 200.3 2,147.7	3
Anions				
11. Hydroxyl (CH ⁻) 12. Carbonate (CO ₃ ⁻) 13. Bicarbonate (HCO ₂ ⁻) 14. Sulfate (Cl ²)	0 // 0 // 181 // 650 // 100,977 /	17.0 = 61.1 = 48.8 = 35.5	0.00 0.00 2.90 13.3 2,844.4	0 5 2
16. Total Dissolved Solids 17. Total Iron (Fe) 18. Total Hardness As CaCO ₃ 19. Resistivity @ 75 F. (Calculated)	163,970	18.2 =	17.64	
LOGARITHMIC WATER PATTERN *meq/L.	PROBAB COMPOUND	LE MINER EQ. WT.	AL COMPOS: X *meg/L	ITION = mg/L.
Na 1991 1891 1891 1993 1993 1994 1994 1994 1995	Ca (HCO ₃) 2	81.04	2.96	240
Ca HH NH MH WEST HER THE HER THE HCC3	CaSO ₄	68.07	13.32	907
Mg WHI WHI WHI HIE HIE HE SOI	CaCl ₂	55.50	497.10	27,589
Fe	Mg (HCO3) 2	73.17	0.00	0
Calcium Sulfate Solubility Profile	MgSO ₄	60.19	0.00	C
1576 1566 1562	MgCL ₂	47.62	200.33	9,54C
1930	NaHCO3	84.00	0.00	С
1546 1342 1538	NaSO4	71.03	6.00	0
1534	NaCl	58.45	2,146.99	125,513

This water is somewhat corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.