	r -		.	TT OT C	ONS COMMISSION	
·····				NM OIL CONS COMMISSION Drawer DD Artes i BORNMAPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993		
Do not use this form for p	RY NOTICES AND REPORTS ON WELLS proposals to drill or to deepen or reentry to a	a different res	servoir	1	tion and Serial No. NM-968038 te or Tribe Name	
Use "APP	LICATION FOR PERMIT-" for such prop SUBMIT IN TRIPLICATE	osals				
1. Type of Well XOII Well Gas Well				7. If Unit or CA, 1	Agreement Designation	
2. Name af Operator Harvey E. Yates Company				8. Well Name and No. ARCO 5 FED. # 1		
3. Address and Telephone No. P.O. Box 1993, Roswell, NM 88202 1-505-623-6601			9. API Well No. 30-015-26197 10. Field and Pool, or Exploratory Area SHUGART BONE SPRING, N.			
4. Location of Well (Footage, Sec., T., R., E, 790' FWL & 1700' FN SEC. 5, T-18S, R-31E	• •	2 2 1 1		11. County or Parish, State		
	TE BOX(s) TO INDICATE NATURE O	F NOTICE,	REPORT, O		EDDY CO., NM	
TYPE OF SUBMISSION		TYPE OF AC	CTION			
Notice of Intent	Abandonment Recompletion		Chang in Plan	struction		
X Subsequent Report	Piugging Back Casing Repair Altering Casing		Water Shut-O	-Routine Fracturing er Shut-Off version to injection		
	Other		•	r of makiple completion pistice Report and Log		
	(Courly state all pertheest details, and give pertinent detes, including esth ad and true vertical dupths for all markers and same pertheent to this w	-		·		
 FORMATION: BWPD: WTR ANALYSIS: LEASE STORAGE: WATER TRANSPORTED: OPERATOR: 	SHUGART BONE SPRING, N. 6 SEE ATTACHED IN FIBERGLASS TANK BY TRUCK TO DISPOSAL TENNESSEE WATER DISPOSAL OR LOCO HILI TENNESSEE FEDERAL WELL #1 UNIT I, SEC. 21, T-19S, R-31E EDDY COUNTY, NM					
	, ,					
14. I have by cartly that the foregoing is to). MGR/ EN(3. Det	12/16/94		
(This space for Federal or State aff						
Approved by (ORIG. SGD Conditions of approvel, if any:		EUM ENG	INEER Def		5	

This 18 U.S.C. Socian 1882, makes it a crime for any person knowingly and wEMaily to make to any department or agoncy of the United States any false, fictitious or frondelout statements

or supresentations as in any motior within its jurisdiction.

1 505 396 6146 P.06



Water Analysis Report

Analysis Number : 000003170

Company: Location: field	Heyco Roswell, New Mexico	Date of Sampling: Date of Analysis:	10/19/94
Lease: Sample Source:	Arco Fed. Wellhead	Baker Representative.: Well# Analysis by	5-1

	DISSOLVED	SOLIDS
CATIONS:	mg/l	mc/l
Ca++	4440.00	222.00
Kg++	3025.60	248.00
F#+++	5.00	0.27
\$a++	0.00	0.00
Na+	51654.09	2245.83
Mn++	0.00	0.00
ANIONS:		
Cl-	95000.00	2676.06
S04	1850.00	38.54
HCO3-	91.50	1.50
CO3	0.00	0.00
OH-	0.00	0.00
\$ -	0.00	0.00
TOTAL HARDNESS		
		: 156066.20
	RBONS(ppm)	

DISSOLVED GASES

Hydrogen Sulfide, H2St	0.0
Carbon Dioxide, CO2	59.4
Oxygen, 02	0.0

PHYSICAL PROPERTIES

рК	5.9
Specific Gravity	1.075
TDS (calculated) ppm	156066.2
TIS (calculated):	3.0

SCALE STABILITIES

Temp.	<u>•c</u>	°F	CaCO3	CaSO4	BaSO4
	20	68	-0.95	4090	0
	30	86	-0.74	4348	Ó
	40	104	-0.50	4988	Ō
	Max ent	ity, (cal	culated);	2750	0

= not determined

WATER ANALYSIS PATTERN

UNCODI DOBION ION SYNDOL INCIG	(es m/) scale unit)
Ca++ 100	
KG++ 3.00	
Pe+++	CALLER AND A THE REPORT OF THE
A 4	• 8 ···· 12

NOTES:

BUREAU OF LAND MANAGEMENT CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- 1. This agency be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
- 3. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
- 6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon metting to prevent entry by birds and other wildlife.
- 7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.