

WATER ANALYSIS for HEYCO

Date of Analysis: JANUARY 12, 1994

HEYCO

company: NEW MEXICO State: Lease:

ARCO 8-2 & 8-5

oil (bbl/day): Type of Water:

N/D PRODUCED

Sample Source: Representative: HEATER TREATER STEVE STROUD

Analysis #:

Company Address: Field:

Well #:

Water (bbl/day): Temp.,C:

Date of Sampling: Analysis By:

2549

ROSWELL

N/D #2,#5

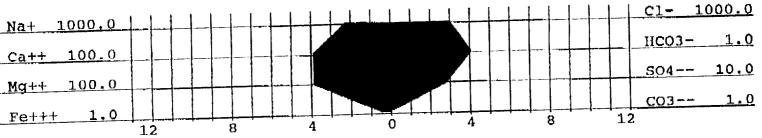
N/D

20

11, 1994 JANUARY SUZANNE WILLIAMS

WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



DISSOLVED SOLIDS

DISSOLVED GASES

CATIONS	me/1	mg/l
Total Hardness :	800.00	
Calcium, (Ca++)	400.00	8019.25
Magnesium, (Mg++):	400.00	4860.56
Iron, (Fe+++):	0.54	10.00
Barium, (Ba++)	N/D	N/D
Sodium, Na+(calc):	2360.39	54288.94
Manganese, (Mn++):	0.00	0.00
trandance.		

ANIONS 3126.76 110996.09 ; chloride, Cl-1440.00 29.97 Sulfate, 804--0.00 0.00 Carbonate, CO3--: 256.25 4.20 Bicarbonate, HCO3-: 0.00 0.00 : Hydroxy1, OH-0.00 0.00 sulfide, 8--179871.00 TOTAL SOLIDS (quant.):

0.00 mg/1Hydrogen sulfide: mg/143.30 Carbon dioxide mg/1N/D oxygen

PHYSICAL PROPERTIES

6.80 pН 1.115 • Spec Grav. :179875.30 TDS (calc.)

SCALE STABILITIES

SCVPD DIVE			T	
Temp.,C	CaCO3	Ca304	B	1804
20.0	0.74	2453		0
30.0	0.94	2635		0
40.0	1.20)09		1
Max entity) ∠157		0
RESIDUAL H			N/D	

NM OIL CONS COMMISSION CIST

Drawer DD

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

Artesia, NM 88210 FORMAPPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

BUREAU OF L	AND MANAGEMENT FEB 1 7 1994	5. Lease Designation and Serial No. LC-029393-A
Do not use this form for proposals to dri	AND REPORTS ON WELLS Il or to deepen or reentry to a different reservoir R PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Soil Gas Other Other		8. Weil Name and No.
2. Name of Operator		ARCO 8-5
Harvey E. Yates Company		30-015-27213
3. Address and Telephone No. P.O. Box 1933, Roswell, NM	88201 (505)623-6601	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Do Unit L, 1980' FSL & 660' FWL Sec.08, T18S, R31E		North Shugart/Bone Spring 11. County or Parish, State Eddy County, NM
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTIO	IN
X Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
Final Abandonment Notice	Altering Casing Other	Conversion to Injection X Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true vertically subsurface locations and measured and true vertically subsurface locations and measured and true vertically subsurface locations. Bone Spring 2. BWPD: 5-15 3. Wtr Analysis: See attached Lease storage: Stock tanked Le	ks. ok to disposal. or Loco Hills	Water Disposal Company
Tennessee Feder Unit 1, Sec.21 Eddy County, N	Tal Well #1 Sec.10, 11 T19S, R31E Eddy Count	y, NM
		5 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND GEZOMAL STIPM ATTACKED	

ATTACHED

4. I hereby certify that the foregoing is true and correct		1/24/94
(This space for Federal or State office use) Approved by tomas the Conditions of Approval, if any:	Title Super PET	Date 2/14/s4
	Mostly, as any department of agency of the	Chile I Come one thin. Fertilions on Frankhlent state