N.A DIL CONS. COMMISSION P.O. JOX 1980

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

HOBBS, NEW MEXICO 88240 FORM APPROVED Budget Bureau No. 1004-0135

		·· or included	Expires: March 31, 1993	
	BUREAU OF	5. Lease Designation and Serial No.		
		NM 67111		
	SUNDRY NOTICES			
Do not us	se this form for proposals to di	6. If Indian, Allottee or Tribe Name		
	Use "APPLICATION FO	R PERMIT—" for such proposals		
		Traction — for such proposals	」 N/A	
	CUDAU	F IN TOIR IOATE	7. If Unit or CA, Agreement Designation	
	SUBMIT	IN TRIPLICATE		
1. Type of We	1		N/A	
☐ Öij	Gas X Orber Produced			
2. Name of Op	CO WELL CORE	8. Well Name and No.		
•		Geronimo Fed #4 Battery		
	nergy Corporation	9. API Well No.		
3. Address and	Telephone No.		1	
P. O. Box	4000, The Woodlands, TX 7733	10. Field and Pool, or Exploratory Area		
4. Location of	Well (Footage, Sec., T., R., M., or Survey D	escription)	┥	
	•	• '	Gem (Bone Spring)	
Unit E Co.	21 TIOC D22E		11. County or Parish, State	
Ullit F, Set	2 31, T19S, R33E			
			Lea, NM	
12. C	CHECK APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPOR		
		of to motorize harone of horiot, heror	TI, ON OTHER DATA	
•	TYPE OF SUBMISSION	TYPE OF ACTION		
1	Notice of Intent (\$35)			
•	Motice of Intent	Abandonment	Change of Plans	
1	 -7	Recompletion	New Construction	
l	Subsequent Report	Plugging Back	Non-Routine Fracturing	
_		Casing Repair	Water Shut-Off	
[Final Abandonment Notice	Altering Casing		
			Conversion to Injection	
		L_J Other	Dispose Water	
			(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
13. Describe Pro	posed or Completed Operations (Clearly state al	l pertinent details, and give pertinent dates, including estimated date of starting	any proposed work. If well is directionally drilled	
g	Service locations and incasting and time veille	cal depths for all markers and zones pertinent to this work.)*		
	_			
Produced V	Vater Disposal			
(a)	Producing water from Bo	one Spring formation	And the second s	
•	5 · · · · · · · · · · · · · · · · · · ·	opting formation.		
(b)	Producing 25 DWDD		this party pith size	
(0)	Producing 35 BWPD.	л ^у Б		
		,15° ♣		
(c)	Water analysis attached.	į.	745 190 W.	
		;	Margar Bank	
(d)	Water is stored in 400 bb	ol closed top fiberglass tank @ battery.	* 100 m	
	•	seems of more and the factory.	7 J	
(e)	Water is transported by	dimation and discount of the	$\mathcal{F}_{A_{\ell}}$.	
(0)	water is transported by p	pipeline to disposal facility.		
10		اير و ميكن م	No. 20	
(f)	Disposal is in the Mewbou	irne Querecho Plains Bone Spring Waterflood, operated	d by Mewbourne. The NMOCD	
	permit is attached w/inject	ction well locations.	to be about the comment	
	•			
14. I hereby cast	ify that the foregoing is true and correct			
	R/	Engineer	2/7/94	
Signed	James Blows	Title	Date	
(This space 1	or Federal or State office use)			
	Crig. Signed by Shandon J. Shaw	STA PASSING NA	21.0/01	
Approved by Conditions or	f approval, if any:	Tide PETROLEUM ENGINEER		
- January 100 U				

Title 18 U.S.C. Section 1001, 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.

MARTIN WATER LABORATORIES, INC.

	ne 943-3234 or 563- Texas 79756		OF WATER		ES .	W. India Midland	na Phone 683-4521 d, Texas 79701			
το: <u>Mr. Jim B</u>	To: Mr. Jim Blount					LABORATORY NO. 692160 SAMPLE RECEIVED 6-16-92				
400 W. Illinois, Suite 1000, Midland, TX					RESULTS REPORTED 6-26-92					
		API WATE	R ANALYS	IS REPORT	FORM					
Company Mitchell	Company Mitchell Energy Corporation			5	Sample No.		ampled			
Field North-Pe	GEM arl	Legal De	scription	,	County or Par Lea	ish	State NM			
Lease or Un Geronimo	Federal	Vell #4	Depth		Formation 1st Bone Springs	Water, B/D				
Type of W Produced	ater (Produced, Su	pply, etc.)	Sampling I	oint		Sample	ed By			
DISSOLVED SOLIDS	7			C	THER PROPERT	IES				
CATIONS Sodium, Na (calc.) Calcium, Ca Magnesium, Mg Barium, Ba	mg/l 65,591 2,040 413	me/l 2,851.8 102.0 34.0		S	H pecific Gravity, 60/ esistivity (ohm-me otal Hardness	ters) 77°				
ANIONS					WATER	PATTER	INS—me/l			
Chloride, Cl Sulfate, SO ₄ Carbonate, CO ₃ Bicarbonate, HCO ₃	105,108 468 0 854	2,964.0 9.7 0.0 14.0		X 10 c X 10 M	20 10 0 11111111111111111111111111111111		10 20 C1 X ¹ ,			
Total Dissolved Solids (calc.) 174,474				LC 	GARITHMIC				
Iron, Fe (total) Sulfide, as H ₂ S	28.0 0.0	1.1		M F	1 1 1 1 1	' ' '	2			
REMARKS & RECOM	MENDATIONS:	We have no	records		⊆ = Springs in t		2			

REMARKS & RECOMMENDATIONS: We have no records of Bone Springs in this field. Though our nearest record in the Pearl field does not resemble this water, we find the surroundarea records show substantial fluctuations in characteristics of Bone Springs. This water is similar to some of our distant records, and it is very similar to the water from well #5 in the accompanying report on that well. Therefore, we could not conclude with confidence that this is anything other than natural Bone Springs.

Horland Marian

Waylan C. Martin, M.A.