Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or

5 Form 3160-5		UNITED STATES		A 25.20 a	FC	DRM APPROVED	
(A) GUST 1999)	D	EPARTMENT OF THE IN	TERIOR 2^{2^3}	24 25 26 27 20 30	ON	MB No. 1004-0135	
		EAU OF LAND MAI	NAGEMENT	A (5)	Expire	s: November 30, 2000	
	Do not use tl	/ NOTICES AND REPO his form for proposals to ell. Use Form 3160-3 (AF	drill or to re-enter an	77 2003 RECEIVED D - ARTESIA	5. Lease Serial No. 6. If Indian, Allottee o	NMLC062052 r Tribe Name	
CIII			17.36		7. If Unit or CA, Agre	ement, Name and/or No.	
	SMILIN IRIP	LICATE - Other instr	ucuons on reverse	<u>3111016819</u>	8. Well Name and No.		
t. Type of Well Oil Well	☐ Gas Well	☐ Other	~		HUDS 9. API Well No.	ON 11 FEDERAL #2	
2. Name of Operator					9. API Well No.		
Harvey E. Yates	Company /				·	015-25740-00-S1	
3. Address			3b. Telephone No. (include area co	de)	10. Field and Pool, or	Exploratory Area	
P.O. Box 1933,		88202	(505)623-6601			TAMANO	
4. Location of Well (Food SEC 11. T18S. F		· Survey Description) RACT 9 1930 FNL 660	FEL / a 🕶	1.).	11. County or Parish,	State	
020 11, 1100, 1	,		FEL UT.	n	ED	DY COUNTY, NM	
12 CHE	CK APPROPR	IATE BOX(ES) TO IND	ICATE NATURE OF N	OTICE, REPORT			
TYPE OF S	UBMISSION			TYPE OF ACT	ION	- All	
☐ Notice of Inten	t	☐ Acidize ☐ Alter Casing	☐ Deepen ☐ Fracture Treat	☐ Production (s	tart/resume)	☐ Water Shut-Off ☐ Well Integrity	
☑ Subsequent Re	port	Casing Repair	New Construction	Recomplete		Other	
☐ Final Abandonr	ment Notice	Change Plans	Plug & Abandon	☐ Temporarily			
C I mai Abandom	TRITE HOUSE	Convert to Injection	☐ Plug Back	✓ Water Dispos	osal		
duration thereof. If the Attach the Bond under of the involved operation Abandonment Notices a 1. Form 2. BWP 3. Wate 4. Leas	e proposal is to deepen d which the work will be p ons. If the operation resu hall be filed only after a nation: Bone Sp D: 8 er Analysis: See e Storage: Sto er transported b nator: I & V PO E	irectionally or recomplete horizontally performed or provide the Bond No. or ults in a multiple completion or recom Il requirements, including reclamation oring	give pertinent dates, including estimated date of starting any proposed work and approximate y, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion pletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final have been completed, and the operator has determined that the site is ready for final inspection.) To disposal well: Walter Solt State SWD #1 Sec 5, T18S, R28E Eddy County, NM			ns and zones. completion Final spection.)	
14. I hereby certify t		true and correct					
Name (Printed/Typed) Len Hickinson			Title	Prod. Ana	ilyst		
Rignature Ar	tkinson Ikinon		Date	21-Mar-03			

Office 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.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.

Title

Date

North Permian Basin Region P.O. Box 740 Sundown, TX 79372-0740 (806) 229-8121 Lab Team Leader - Sheila Hernandez (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 #):	2	Analysis Cost	\$40.00
Formation:	UNKNOWN		

WELLHEAD

Sample Point:

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 HERNANDEZ	Bicarbonate:	61.0	1.	Magnesium:	2358.0	193.98		
TDO (Carbonate:	0.0	0.	Calcium:	10698.0	533.83		
TDS (mg/l or g/m3): 208278.4	Sulfate	1217.0	25.34	Strontium:	390.0	8.9		
Density (g/cm3, tonne/m3): 1.137	Phosphate:			Barium:	0.8	0.01		
Anion/Cation Ratio:	Borate:			Iron:	45.0	1.63		
	Silicate:			Potassium:	1694.0	43.32		
				Aluminum:				
Carbon Dioxide: 110 PPM	Hydrogen Sulfide:		75 PPM	Chromium:				
Oxygen:	pH at time of sampling:		6.5	Copper:				
Comments:	1	, ,		Lead:				
	pH at time of analysis:			Manganese:				
	pH used in Calcul	ation:	6.5	Nickel:				

Condi	tions	Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Tamn	Gauge Calcite Press. CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press	
°F	psi	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

